

Historic, Archive Document

Do not assume content reflects current scientific knowledge, policies, or practices.

4292.9
So 3 Wat
Cap. 2



WATER SUPPLY OUTLOOK FOR IDAHO

U. S. DEPT. OF AGRICULTURE
NATIONAL AGRICULTURAL LIBRARY

MAY 22 1967

and CURRENT SERIAL RECORDS
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

UNITED STATES DEPARTMENT of AGRICULTURE...SOIL CONSERVATION SERVICE,
and
IDAHO STATE RECLAMATION ENGINEER

Data included in this report were obtained by the agencies named above
in cooperation with Federal, State and private organizations listed in-
side the back cover of this report.

AS OF
APR. 1, 1967

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season as they affect runoff will add to be an effective average. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1400 snow courses in Western United States and in the Columbia Basin in British Columbia. In the near future, it is anticipated that automatic snow water equivalent sensing devices along with radio telemetry will provide a continuous record of snow water equivalent at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data or reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

Listed below are water supply outlook reports based on Federal-State-Private Cooperative snow surveys. Those published by the Soil Conservation Service may be obtained from Soil Conservation Service, Room 507, Federal Building, 701 N. W. Glisan, Portland, Oregon 97209.

PUBLISHED BY SOIL CONSERVATION SERVICE

D. A. WILLIAMS, Administrator

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 507, 701 N. W. Glisan, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	P. O. Box "F", Palmer, Alaska 99645
Arizona	6029 Federal Building, Phoenix, Arizona 85205
Colorado (N. Mex.)	12417 Federal Building, Denver, Colorado 80202
Idaho	P. O. Box 38, Boise, Idaho 83701
Montana	P. O. Box 855, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4001 Federal Building, Salt Lake City, Utah 84111
Washington	840 Bon Marche Bldg., Spokane, Washington 99206
Wyoming	P. O. Box 340, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



WATER SUPPLY OUTLOOK
and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS
for
IDAHO

Report prepared by

MORLAN W. NELSON Snow Survey Supervisor

and

J. ALDEN WILSON Asst. Snow Survey Supervisor

SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
P.O. BOX 38, BOISE, IDAHO 83701

Issued by

LEE T. MORGAN

STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
BOISE, IDAHO

R. KEITH HIGGINSON

STATE RECLAMATION ENGINEER
DEPARTMENT OF RECLAMATION
BOISE, IDAHO

TABLE of CONTENTS

WATER SUPPLY OUTLOOK FOR IDAHO	1
SNOW WATER DEPTHS ACCUMULATION	3
COMPARISON OF SNOW COVER	4
SNOW WATER DEPTHS MAP	5
RESERVOIR STORAGE	6
RESERVOIR STORAGE MAP	7
STREAMFLOW FORECASTS CHART	8
PROSPECTIVE STREAMFLOW MAP	9
STREAMFLOW FORECASTS	10
VALLEY PRECIPITATION	13

APPENDIX

UPPER COLUMBIA and LOWER SNAKE RIVER BASINS -

Snow Course Location Map and Index	
Snow Survey Data for Pend Oreille-Priest, Spokane, Palouse, Clearwater, Salmon and Lemhi River Watersheds.	i
Soil Moisture Data for Spokane, Clearwater, Salmon and Lemhi River Watersheds	iii

MIDDLE SNAKE RIVER BASIN - NORTHSIDE -

Snow Course Location Map and Index	
Snow Survey Data for Little Lost, Big Lost, Little Wood, Big Wood, Boise, Payette and Weiser River Watersheds . . .	iv
Soil Moisture Data for Little Wood, Big Wood and Boise River Watersheds	vi

MIDDLE SNAKE RIVER BASIN - SOUTHSIDE -

Snow Course Location Map and Index	
Snow Survey Data for Raft River, Goose Creek, Salmon Falls Creek, Bruneau and Owyhee River Watersheds	vii
Soil Moisture Data for Raft River, Goose Creek, Salmon Falls Creek, Bruneau and Owyhee River Watersheds	viii

UPPER SNAKE RIVER BASIN -

Snow Course Location Map and Index	
Snow Survey Data for Camas-Beaver Creeks, Henrys Fork River, Teton River, Willow Creek, Sand Creek, Blackfoot River, and Portneuf River Watersheds.	ix
Soil Moisture Data for Henrys Fork River, Teton River, and Portneuf River Watersheds.	x

GREAT BASIN -

Snow Course Location Map and Index	
Snow Survey Data for Bear River, Montpelier Creek and Mink Creek Watersheds.	xi
Soil Moisture Data for Bear River and Montpelier Creek Watersheds	xi

WATER SUPPLY OUTLOOK for IDAHO



GENERAL SUMMARY FOR APRIL 1, 1967

Snowfall during the past month was generally spotted and did not change the situation existing near the first of March. The Kootenai River watershed in Canada has a record-breaking snow pack at the high elevations. This poses an extreme hazard because of the high volumes of water forecast. The River Forecast Center of the Weather Bureau interpret this volume to be a water stage of 33 to 36 feet at Bonners Ferry. Flood stage is 31 feet. The Big Lost, Little Lost, and Little Wood Rivers also have an unusually heavy snow pack, even though the surrounding rivers have a near normal accumulation of snow. Delayed snow melt, coupled with spring storms, on these streams could result in problems of high water and fast runoff.

The rivers south of the Snake River, such as those in Owyhee County, Salmon Falls Creek, Goose and Trapper Creeks above Oakley Reservoir, are faced with a critical water shortage. Even under normal conditions of precipitation for the remainder of the spring, these areas will have only slightly more than a 50% water supply. The runoff outlook for the remainder of the rivers and streams in the state is forecast at near normal.

Soil moisture conditions have not changed significantly beneath the snow pack at high elevations. Generally, throughout the state, the soil is dry at the higher elevations where snow melt has not yet started. This factor

is expected to reduce streamflow from that indicated by snow-water and precipitation to date. The snowline is unusually high and soil moisture below the snowline has already started to dry out. This situation makes all of our watersheds unusually sensitive to whether or not we have normal spring rains.

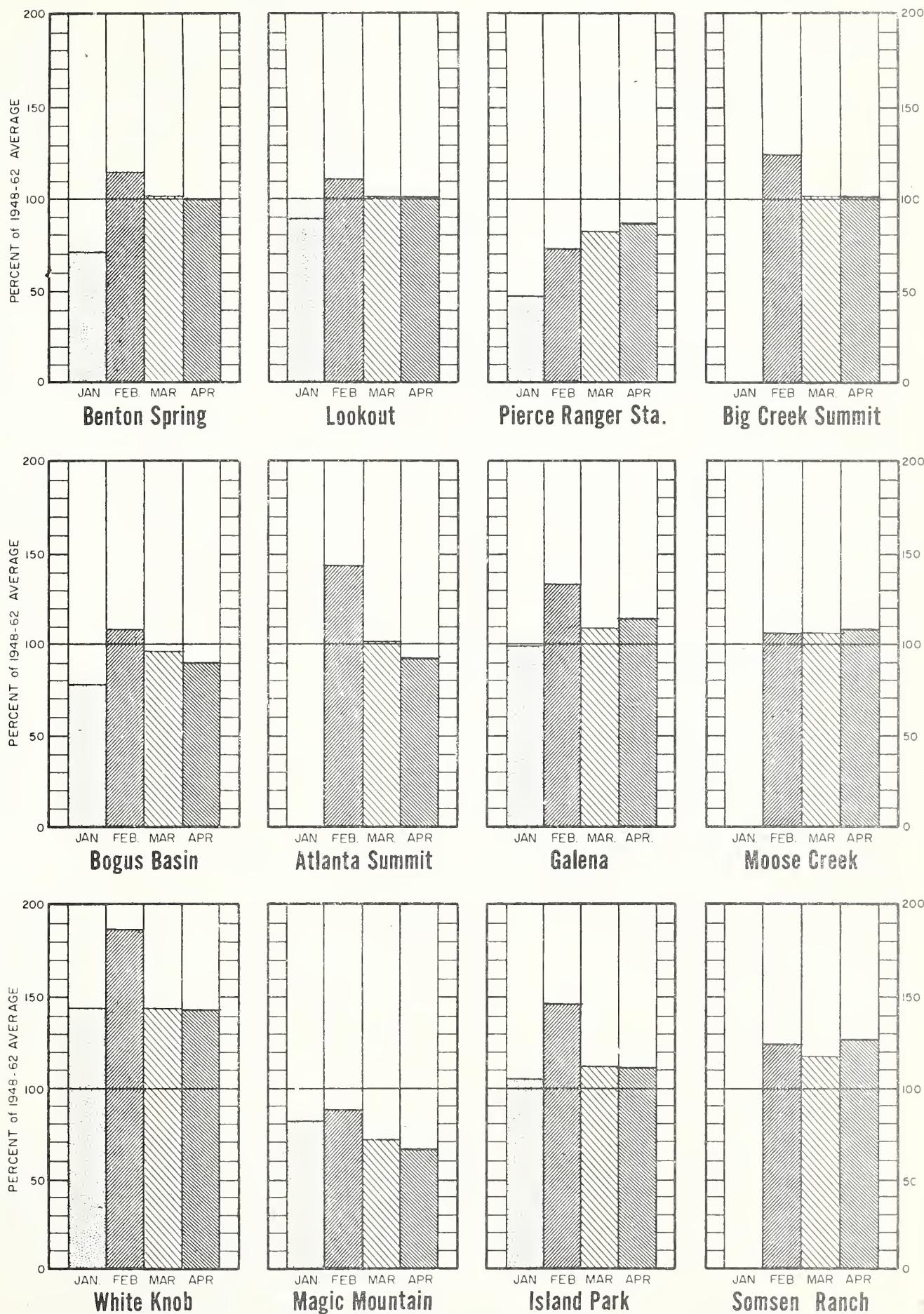
March valley precipitation was up sharply from the generally low value of February. Averages for the major river basins in Idaho and eastern Oregon range from 85% of normal in the Upper Snake to 136% in the Kootenai Basin. Accumulated precipitation averages for the period November through March are normal or above in all but the Clark Fork watershed. Five month average precipitation ranges from 97% in the Clark Fork drainage to 119% of normal in the Kootenai Basin.

On the Boise River and other smaller streams in southern Idaho, water is already being diverted for irrigation. In practically all cases, the major snow melt has not started and reservoir stored water is being used for this purpose.

The main stem of the Snake River and other rivers with adequate storage facilities will again have to draw on stored water to deliver normal water supplies.

**SNOW WATER DEPTHS ACCUMULATION,
For Selected Snow Courses
As Compared To 1948-62 15Yr. Average**

APRIL 1, 1967

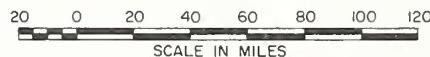


COMPARISON of SNOW COVER

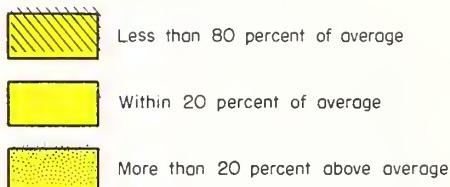
RIVER BASIN WATERSHED	NO. OF COURSES AVERAGED	THIS YEAR'S SNOW WATER EXPRESSED AS PERCENT OF :	
		LAST YEAR	1948-62 AVERAGE
<u>UPPER COLUMBIA RIVER BASIN</u>			
Kootenai River	13	146	137
Pend Oreille River	65	149	121
Clark Fork River	41	149	111
Flathead River	24	149	130
Priest River	2-4	116	94
Spokane River	13-17	117	103
<u>LOWER SNAKE RIVER BASIN</u>			
Palouse River	5	78	65
Clearwater River	13-26	116	102
Salmon River	15-21	130	102
Lemhi River	7	151	--
<u>MIDDLE SNAKE RIVER BASIN - Northside</u>			
Little Lost River	5	241	132
Big Lost River	5-10	169	142
Fish Creek	2	143	126
Little Wood River	4-5	155	131
Big Wood River	10-11	149	109
Canyon Creek	7	221	--
Boise River	13-15	132	91
Payette River	12-19	120	98
Weiser River	2-4	105	97
<u>MIDDLE SNAKE RIVER BASIN - Southside</u>			
Raft River	4-6	114	78
Goose-Trapper Creeks	2	123	74
Salmon Falls Creek	8-9	136	83
Bruneau River	4	120	88
Owyhee River	5	135	80
<u>UPPER SNAKE RIVER BASIN</u>			
Upper Snake - Wyoming	21	129	99
Camas-Beaver Creeks	3	185	126
Medicine Lodge Creek	2	173	--
Henrys Fork River	4-10	138	114
Teton River	2-4	143	95
Blackfoot River	4	131	114
Portneuf River	3	164	106
<u>GREAT BASIN</u>			
Bear River	15	134	98
Montpelier Creek	4	113	--
Mink Creek	4	106	102
Cub River	3	128	88
Malad River	2	251	88

SNOW WATER DEPTHS
As percent of 1948-62 15 year average
APRIL 1, 1967

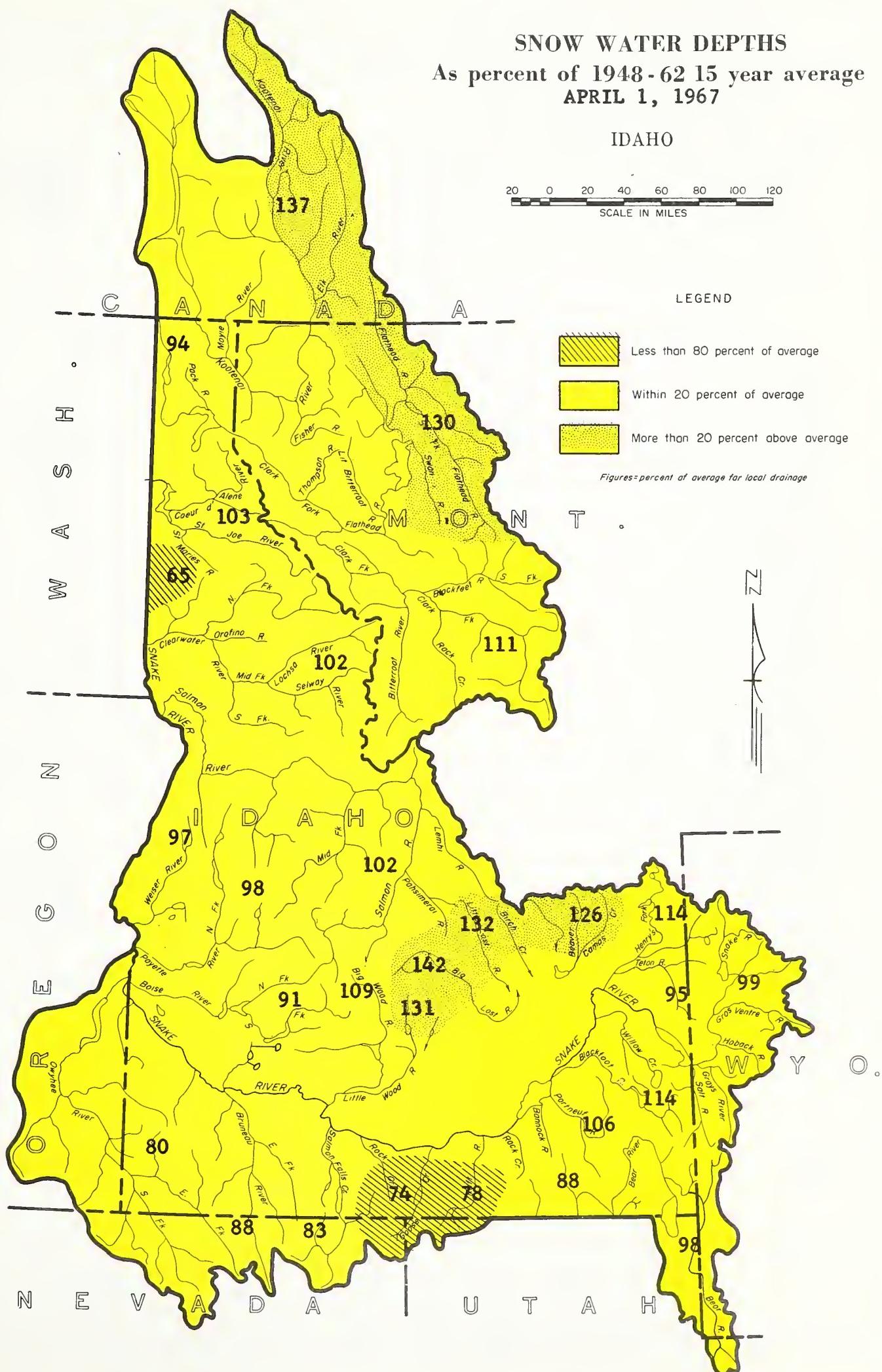
IDAHO



LEGEND



Figures = percent of average for local drainage



RESERVOIR STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1948-62 AVERAGE
<u>UPPER COLUMBIA BASIN</u>				
<u>Clark Fork - Pend Oreille</u>				
Hungry Horse	3428.0	1551.0	2214.0	2244.4*
Flathead	1791.0	731.3	650.4	690.8
Pend Oreille	1561.0	597.1	966.0	669.3
Noxon	334.6	153.1	189.0	--
<u>Spokane</u>				
Coeur d'Alene	238.5	158.1	187.0	174.5
<u>SNAKE BASIN</u>				
<u>Snake</u>				
Jackson Lake	847.0	507.7	695.8	393.8
Palisades	1200.0	597.0	1037.5	--
American Falls	1700.0	1583.6	1428.0	1556.6
Island Park	127.0	115.1	131.0	117.1
Grassy Lake	15.2	9.1	9.3	12.1
Brownlee	980.2	347.6	390.1	--
<u>Goose-Trapper Creeks</u>				
Oakley	74.4	13.0	27.2	20.4
<u>Salmon Falls Creek</u>				
Salmon Falls	182.6	20.6	51.7	29.6
<u>Big Lost</u>				
Mackay	44.2	29.3	43.2	32.8
<u>Big Wood</u>				
Magic	191.5	54.2	190.7	107.3
<u>Little Wood</u>				
Little Wood	30.0	17.2	25.4	12.7*
<u>Fish Creek</u>				
Carey Valley	13.0	9.1	11.3	--
<u>Boise</u>				
Anderson Ranch	423.2	147.3	350.5	156.2
Arrowrock	286.6	258.1	283.2	200.8
Lucky Peak	278.2	38.4	254.9	169.3*
Lake Lowell (Deer Flat)	169.0	131.2	144.9	146.0
<u>Owyhee</u>				
Owyhee	715.0	422.6	648.4	483.4
<u>Payette</u>				
Cascade	653.2	133.6	443.0	--
Deadwood	161.9	63.7	111.2	76.0
<u>GREAT BASIN</u>				
<u>Bear</u>				
Bear Lake	1421.0	1099.4	1131.4	920.0

*Period of Record.

RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

APRIL 1, 1967

50 0 50 100 150
SCALE IN MILES

Contents
RESERVOIR
Capacity

597.1
PEND OREILLE
1561.0

158.1
COEUR D'ALENE
238.5

63.7
DEADWOOD
161.9

133.6
CASCADE
653.2

347.6
BROWNLEE
980.2

422.6
OWYHEE
715.0

131.2
LAKE LOWELL
169.0

38.4
LUCKY PEAK
278.2

258.1
ARROWROCK
286.6

147.3
ANDERSON RANCH
423.2

153.1
NOXON
334.6

1551.0
HUNGRY HORSE
3428.0

731.3
FLATHEAD LAKE
1791.0

29.3
MACKAY
44.2

115.1
ISLAND PARK
127.0

9.1
GRASSY LAKE
15.2

507.7
JACKSON LAKE
847.0

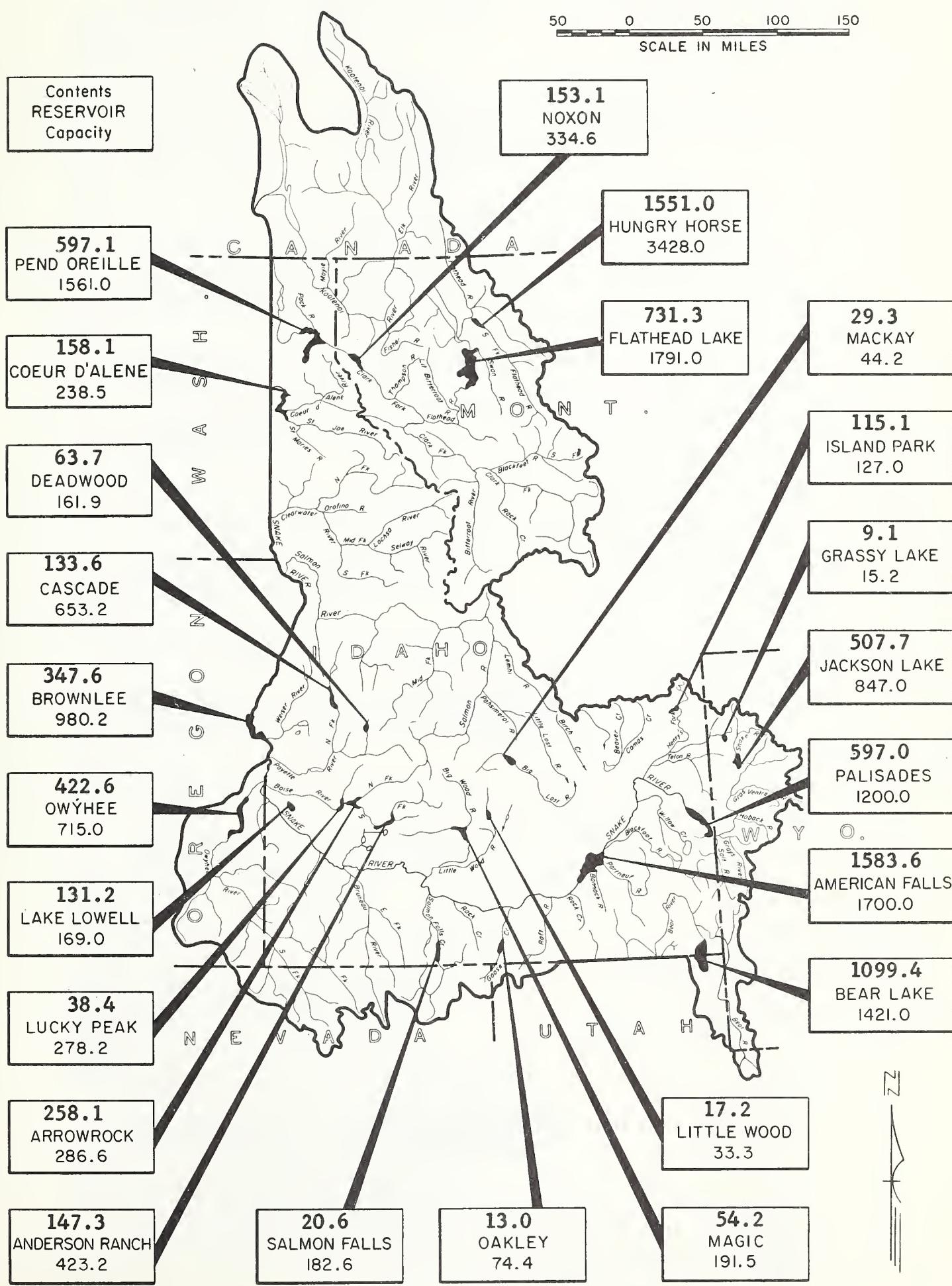
597.0
PALISADES
1200.0

1583.6
AMERICAN FALLS
1700.0

1099.4
BEAR LAKE
1421.0

17.2
LITTLE WOOD
33.3

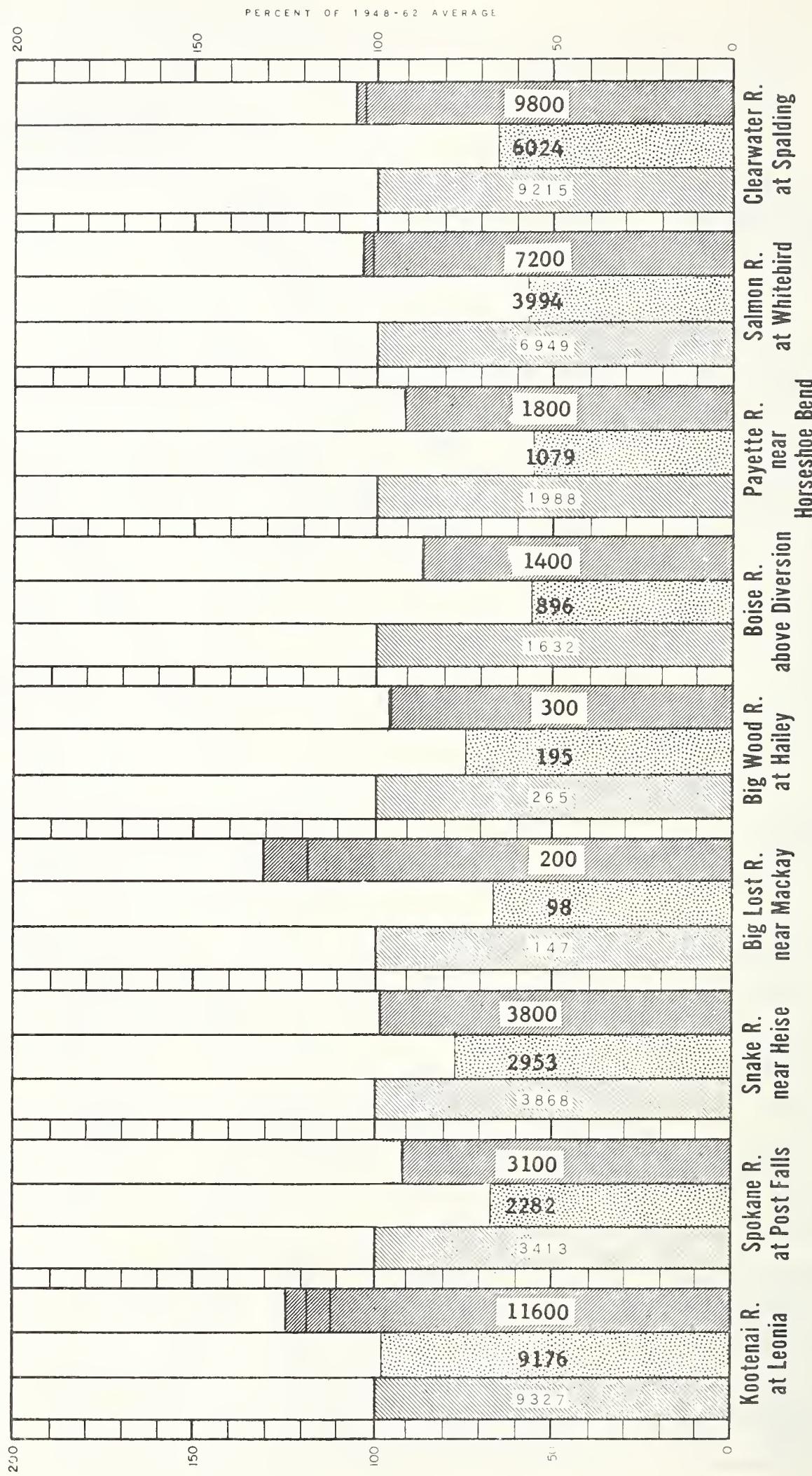
54.2
MAGIC
191.5



STREAMFLOW FORECASTS (April through September period)
Based on Snow Surveys made on approximately

APRIL 1, 1967

15 YR. AVERAGE FLOW 1948-62 THIS YEARS FORECAST
 LAST YEARS FLOW 123 FLOW IN THOUSANDS OF ACRE FEET



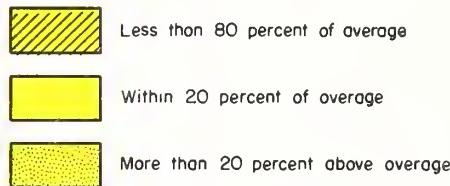
PROSPECTIVE STREAMFLOW
Based on Snow Surveys made on approximately
APRIL 1, 1967

APRIL 1, 1967

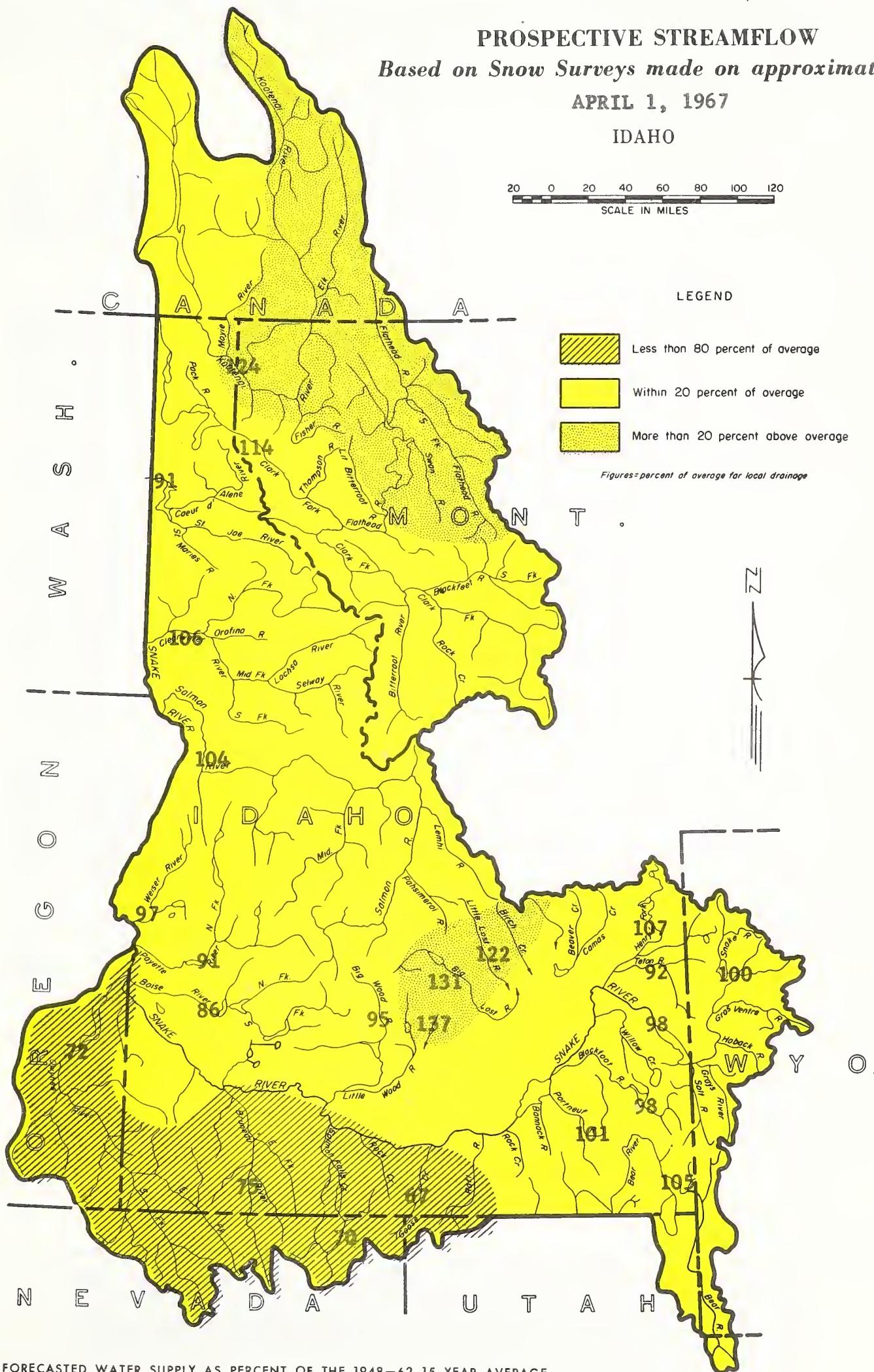
IDAHO



LEGEND



Figures = percent of average for local drainage



FORECASTED WATER SUPPLY AS PERCENT OF THE 1948-62 15 YEAR AVERAGE

STREAMFLOW FORECASTS (1,000 Ac. Ft.)

STREAM and/or FORECAST POINT	FORECAST THIS YEAR	FORECAST PERIOD	LAST YEAR	1948-1962 AVERAGE	THIS YEAR AS PERCENT OF AVERAGE
------------------------------	--------------------	-----------------	-----------	-------------------	---------------------------------

UPPER COLUMBIA BASINKOOTENAI RIVER

Leonia	(at)	11600	Apr-Sep	9176	9327	124
		10250	Apr-Jul	8156	8179	125
		8270	Apr-Jun	6560	6601	125

PEND OREILLE RIVER

Clark Fork River						
Whitehorse Rapids	(at)	16500	Apr-Sep	11474	14398	114
		15000	Apr-Jul	10516	13187	114
		12850	Apr-Jun	9089	11318	114

Priest River

Priest River 1/	(nr)	900	Apr-Jul	776	954	95
-----------------	------	-----	---------	-----	-----	----

SPOKANE RIVER

Post Falls 2/	(at)	3100	Apr-Sep	2282	3413	91
---------------	------	------	---------	------	------	----

Coeur d'Alene River

Cataldo	(nr)	1250	Apr-Sep	979	1377	91
		1200	Apr-Jul	935	1317	91

St. Joe River

Calder	(at)	1320	Apr-Sep	1070	1453	91
		1260	Apr-Jul	1014	1383	91

SNAKE RIVER BASINSNAKE RIVER - MAIN STEM

Moran 3/	(at)	865	Apr-Sep	--	865	100
Palisades Inflow 3/		3390	Apr-Sep	--	3314	102
Heise 4/	(nr)	3800	Apr-Sep	2953	3868	98
Blackfoot 5/	(nr)	3890	Apr-Jul	2863	3976	98
Weiser	(at)	5000	Apr-Sep	--	6949	72

Henry's Fork

Ashton 6/	(nr)	655	Apr-Sep	545	610	107
Rexburg 7/	(nr)	1295	Apr-Sep	950	1258	103

Teton River

St. Anthony	(nr)	370	Apr-Sep	316	402	92
-------------	------	-----	---------	-----	-----	----

Blackfoot River

Blackfoot						
Reservoir Inflow		100	Apr-Sep	--	102	98

(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Priest Lake. 2/ Observed flow corrected for storage in Coeur d'Alene Lake and diversions by Spokane Valley Farms Company and Rathdrum Prairie canals. 3/ Corrected for storage in Jackson Lake. 4/ Corrected for storage in Jackson Lake and Palisades. 5/ Corrected for storage in Jackson Lake, Palisades, Island Park, Henry's Lake, Grassy Lake and diversions between Heise and Blackfoot. 6/ Corrected for storage in Henry's Lake and Island Park Reservoir. 7/ Corrected for storage in Henry's Lake, Island Park, Grassy Lake and diversions between Ashton and Rexburg.

STREAMFLOW FORECASTS^c(1,000 Ac. Ft.)

STREAM and/or FORECAST POINT		FORECAST THIS YEAR	FORECAST PERIOD	LAST YEAR	1948-1962 AVERAGE	THIS YEAR AS PERCENT OF AVERAGE
<u>Portneuf River</u>						
Topaz	(at)	90	Mar-Sep	75	89	101
<u>Oakley Reservoir Inflow</u>		15	Mar-Sep	14.4	22.4	67
<u>Salmon Falls Creek</u>						
San Jacinto	(nr)	55	Mar-Sep	36	78	70
		53	Mar-Jul	33	76	70
<u>Bruneau River</u>						
Hot Springs	(nr)	160	Mar-Sep	84	215	75
<u>Little Lost River</u>						
Howe	(nr)	45	Mar-Sep	36	37	122
<u>Big Lost River</u>						
Howell Ranch	(at)	230	Apr-Sep	104	181	127
		165	Apr-Jun	79	131	127
Mackay 1/	(nr)	200	Apr-Sep	98	153	131
<u>Big Wood River</u>						
Hailey 2/	(at)	300	Apr-Sep	195	317	95
Magic Reservoir						
Inflow 3/		260	Mar-Jul	157	277	94
<u>Little Wood River</u>						
High Five Creek	(ab)	110	Apr-Sep	55	80	137
<u>Boise River</u>						
Twin Springs	(nr)	690	Apr-Sep	411	756	91
		640	Apr-Jul	378	704	91
Boise 4/	(nr)	1400	Apr-Sep	896	1632	86
<u>South Fork</u>						
Anderson Dam 5/	(at)	550	Apr-Sep	340	610	90
<u>Owyhee River</u>						
Gold Cr., Nev. 6/	(nr)	12	Apr-Jul	6	22	54
Owyhee, Nev. 6/	(nr)	38	Apr-Jul	21	74	51
Lake Owyhee		225	Apr-Sep	105	381	59
net inflow 7/		210	Apr-Jul	--	364	58
<u>Jordan Creek</u>						
Lone Tree Creek	(ab)	93	Apr-Jul	--	116	95

(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Mackay Reservoir and diversion in Sharp Ditch. 2/ Combined discharge of Big Wood River and Big Wood Slough corrected for diversions. 3/ Combined flow Big Wood River nr. Bellevue and Camas Creek nr. Blaine. 4/ Corrected for storage in Arrowrock, Anderson Ranch and Lucky Peak. 5/ Corrected for storage in Anderson Ranch Reservoir. 6/ Corrected for storage in Wild Horse Reservoir. 7/ From U.S.B.R. records of inflow.

STREAMFLOW FORECASTS^c(1,000 Ac. Ft.)

STREAM and/or FORECAST POINT	FORECAST THIS YEAR	FORECAST PERIOD	LAST YEAR	1948-1962 AVERAGE	THIS YEAR AS PERCENT OF AVERAGE
------------------------------	-----------------------	-----------------	-----------	----------------------	---------------------------------------

<u>Payette River</u>						
Horseshoe Bend 1/	(nr)	1800	Apr-Sep	1079	1988	91
Banks 2/	(nr)	940	Apr-Jul	--	1036	91
<u>North Fork</u>						
Cascade 3/	(at)	535	Apr-Sep	--	589	91
Banks 3/	(nr)	690	Apr-Sep	--	760	91
<u>Weiser River</u>						
Weiser ab. Crane Creek 4/		540	Mar-Sep	--	554	97
<u>Salmon River</u>						
Whitebird	(at)	7200	Apr-Sep	3994	6949	104
Challis	(nr)	940	Apr-Sep	--	900	104
		820	Apr-Jul	--	788	104
<u>Clearwater River</u>						
Spalding	(at)	9800	Apr-Sep	6024	9215	106
Kamiah	(at)	5440	Apr-Sep	--	5130	106
		5210	Apr-Jul	--	4915	106
<u>North Fork</u>						
Ahsahka	(nr)	3600	Apr-Sep	--	3400	106
		3390	Apr-Jul	--	3199	106
<u>GREAT BASIN</u>						
<u>BEAR RIVER</u>						
Harer	(at)	270	Apr-Sep	208	258	105
<u>Montpelier Creek</u>						
Montpelier	(nr)	11	Apr-Sep	--	11.8	93
<u>Cub River</u>						
Preston	(nr)	45	Apr-Sep	--	49	92

(c) Assuming normal meteorological conditions. 1/ Corrected for storage in Cascade and Deadwood Reservoirs. 2/ Corrected for storage in Deadwood Reservoir. 3/ Corrected for storage in Cascade Reservoir. 4/ Observed flow of Weiser River nr. Weiser minus observed flow of Crane Creek at mouth.

VALLEY PRECIPITATION 1/

Division Averages and Departures

In Inches

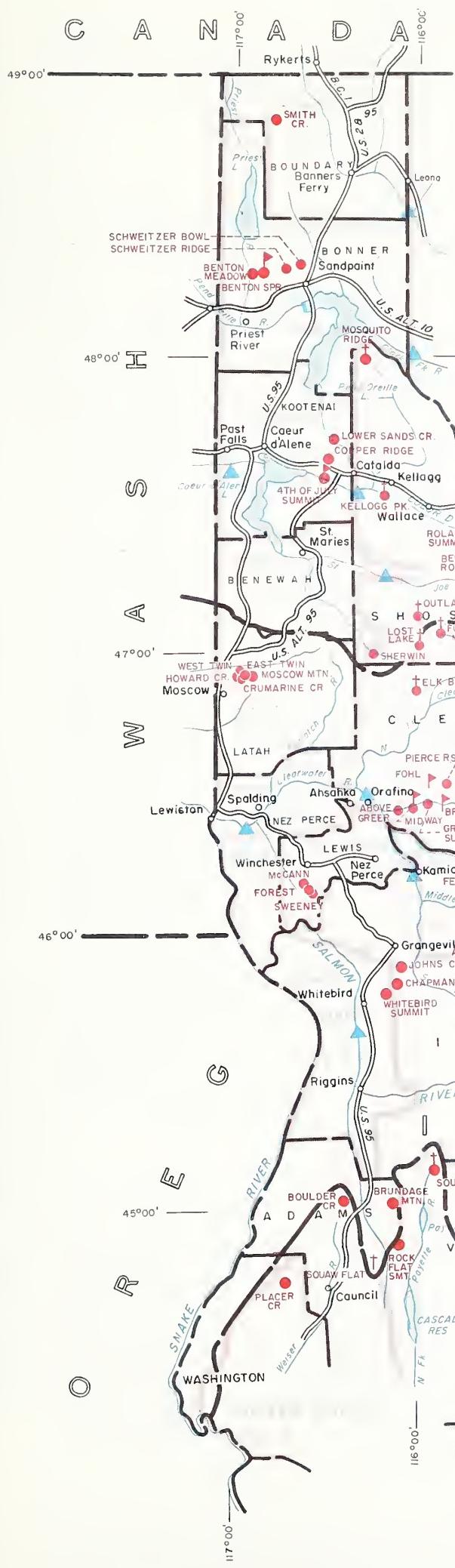
DRAINAGE DIVISIONS	Winter		March 1967	
	Nov. 1966-Mar. 1967 Observed	Departure 2/ Departure 2/	Observed	Departure 2/ Departure 2/
Kootenai, Canada & U. S.	16.79	+2.70	2.56	+0.68
Flathead	12.04	+1.94	1.65	+0.15
Clark Fork	4.51	-0.15	1.06	+0.25
Pend Oreille-Spokane	21.01	+2.08	2.86	0.00
Upper Snake	10.74	-0.01	1.68	-0.29
Snake River Plain	4.91	+0.42	1.12	+0.26
Salmon-Payette-Boise	11.82	+0.47	1.79	-0.12
Clearwater	14.24	+0.25	2.60	+0.04
Southeastern Oregon	5.99	+0.60	0.94	-0.08

1/ Preliminary analysis by U. S. Weather Bureau from data furnished by Meteorological Service of Canada & U. S. Weather Bureau.

2/ Departure from 15-year (1948-62) drainage division average.



UPPER COLUMBIA and LOWER SNAKE RIVER BASINS

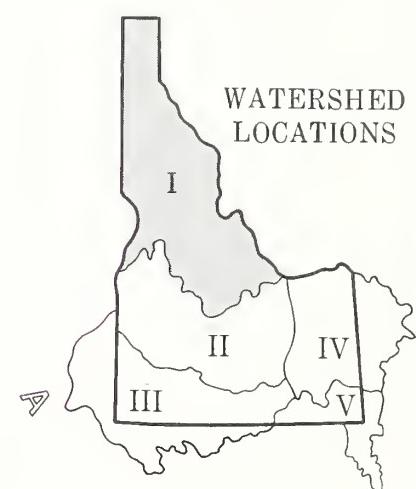


25 0 25 50 75
SCALE IN MILES

LEGEND

- Watershed Boundary
- - - Soil Conservation District Bdry
- - - County Boundary
- ▲ Forecast Point
- Snow Course
- † Aeriel Snow Depth Goge
- Soil Moisture Station
- Snow Pressure Pillow
- Temperature Gage
- Precipitation Gage
- ⚡ Radio Telemetry

WATERSHED LOCATIONS



INDEX to SNOW COURSES

NO.	STATE	NAME	SEC. LAT.	TWP. OR ANO	RGE. LONG.	ELEV.	NO.	STATE	NAME	SEC. LAT.	TWP. OR ANO	RGE. LONG.	ELEV.
UPPER COLUMBIA BASIN													
KOOTENAI RIVER													
16A1	I	Smith Creek	29	64N	3W	4800	16C11	I	Above Greer	14	35N	2E	1240
PEND OREILLE - PRIEST RIVER													
16A2	I	Benton Meadow	27	58N	4W	2344	15D7a	I	Anderson Butte	34	30N	9E	6800
16A3M	I	Benton Spring	30	58N	3W	4900	15D8a	I	Anderson Ridge	35	30N	9E	5400
16A6	I	Schweitzer Bowl	20	58N	2W	4500	15D9p	I	Blackhawk	31	29N	10E	6080
16A5	I	Schweitzer Ridge	19	58N	2W	6100	16C14m	I	Brown	11	35N	3E	3100
SPOKANE RIVER													
15B8	I	Above Burke	11	48N	5E	4100	15D5APM	I	Buck Meadows	26	31N	8E	5600
15B7	I	Above Roland	35	47N	6E	4350	15C3A	I	Cayuse Airstrip	4	38N	11E	3700
15B6	I	Below Roland	34	47N	6E	3770	15C7	I	Coolwater Mountain	32	33N	8E	6200
16B2	I	Copper Ridge	6 & 7	50N	1W	4800	15D10a	I	Copper Butte	35	31N	10E	6000
16B3M	I	Fourth of July Summit	6	49N	1W	3100	15C9A	I	Crater Meadows	2	37N	9E	6100
15B13A	I	Granite Peak	3	42N	8E	6000	14C10	I	Crooked Fork	27	37N	14E	3800
16B5A	I	Kellogg Peak	19	48N	3E	5560	15D11a	I	Disgrace Butte	26	30N	10E	6600
15B2M	I	Lookout	4	47N	6E	5250	16C15A	I	Elk Butte	6	40N	3E	5550
16B1	I	Lower Sands Creek	32	51N	1W	3400	15D12p	I	Elk City Rgr. Sta.	23	29N	8E	4000
15B4A	I	Medicine Ridge	24	43N	10E	6150	15D13ap	I	Elk Mountain	34	30N	11E	6900
16A4A	I	Mosquito Ridge	5	54N	2E	5110	15C11a	I	Falls Point	10	31N	9E	4600
15B12A	I	Outlaw Creek	19	44N	5E	3750	15C12p	I	Fenn Ranger Station	23	32N	7E	1580
15B5A	I	Roland Summit	26	47N	6E	5200	15C2AP	I	Fish Lake Airstrip	35	35N	11E	5000
16C1	I	Sherwin	28 & 33	42N	1E	3200	15C8m	I	Fohl	16	36N	5E	3450
15B9A	I	Sunset	28	49N	5E	5600	16C9	I	Forest	1	32N	3W	4550
LOWER SNAKE BASIN													
PALOUSE RIVER													
16C6	I	Crumarine Creek	24	40N	5W	3500	15B3A	I	Forty-nine Meadows	6	43N	5E	5000
16C3	I	East Twin	13	40N	5W	4000	14C9A	I	Goat Lake	4	38N	13E	6600
16C5	I	Howard Creek	14	40N	5W	3500	15D14p	I	Green Mountain	15	28N	11E	7000
16C2	I	Moscow Mountain	18	40N	4W	4800	16C13	I	Greer Summit	13	35N	2E	3000
16C4P	I	West Twin	14	40N	5W	4200	15C6AP	I	Hemlock Butte	7	36N	7E	5500
LEGEND													
Numbering System (example)													
10J7		SNOW COURSE ONLY.					15D18P	I	Mill Site	22	28N	11E	6700
10J7P		SNOW COURSE AND PRECIPITATION GAGE.					15D6AP	I	Mountain Meadows	9	27N	10E	6300
10J7M		SNOW COURSE AND SOIL MOISTURE STATION.					14D1	M	Nez Perce Pass	25	1S	24W	6575
10J7A		SNOW COURSE AND AERIAL MARKER.					15D4	I	Orogrande Mountain	24	27N	6E	7800
10J7MA		SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.					15C5	I	Pierce Ranger Station	2	36N	5E	3170
10J7MP		SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.					14C6	I	Powell Ranger Station	33	37N	14E	4230
10J7 m		SOIL MOISTURE STATION ONLY.					15D19p	I	Red River Ranger Station	4	27N	9E	4340
10J7 a		AERIAL MARKER ONLY.					15D20a	I	Sable Hill	14	29N	10E	6000
10J7 p		STORAGE PRECIPITATION GAGE ONLY.					14C4	I	Savage Pass	18	36N	15E	6600
CLEARWATER RIVER													
SALMON RIVER													
13E19MA	I	Above Gilmore					13E19MA	I	Above Gilmore	13	13N	26E	8200
13E21A	I	Aspen-Hall Pass					13E21A	I	Aspen-Hall Pass	6	16N	28E	8110
15E2	I	Big Creek Summit					15E2	I	Big Creek Summit	24	15N	5E	6600
13E8a	I	Borah					13E8a	I	Borah	21	10N	23E	8250
16D6	I	Brundage Mountain					16D6	I	Brundage Mountain	7	19N	3E	7600
16D2	I	Chapman Creek					16D2	I	Chapman Creek	16	29N	2E	4215
13E17A	I	Copes Camp					13E17A	I	Copes Camp	36	18N	22E	7500
13E23a	I	Doublespring Pass					13E23a	I	Doublespring Pass	3	10N	22E	8400
13D17a	I	Gertson Creek					13D17a	I	Gertson Creek	22	22N	23E	8050
13D2	M	Gibbons Pass					13D2	M	Gibbons Pass	4	2S	19W	7100
13D9	M	Gold Stonw					13D9	M	Gold Stonw	11	8S	16W	8100
13E20Q	I	HallCreek					13E20Q	I	HallCreek	1	16N	27E	7560
16D3	I	Johns Creek					16D3	I	Johns Creek	9	19N	2E	3805
13E22ap	I	Leatherman Pass					13E22ap	I	Leatherman Pass	20	9N	23E	9800
13E23	M	Lemhi Ridge					13E23	M	Lemhi Ridge	4	10S	15W	8100
13E18MA	I	Meadow Lake					13E18MA	I	Meadow Lake	24	13N	26E	9100
14E1MAP	I	Mill Creek Summit					14E1MAP	I	Mill Creek Summit	8	13N	17E	8870
13D16	I	Moose Creek					13D16	I	Moose Creek	22 & 26	27N	21E	6200
14E4	I	Morgan Creek					14E4	I	Morgan Creek	32	18N	19E	7580
14E2	I	Redfish Lake					14E2	I	Redfish Lake	3	9N	13E	6600
13E16A	I	Schwartz Lake					13E16A	I	Schwartz Lake	34	18N	22E	8500
13E2	M	Trail Creek					13E2	M	Trail Creek	15	10S	15W	7090
14E3a	I	Twin Peaks					14E3a	I	Twin Peaks	28	15N	17E	10300
14F4AP	I	Vienna Mine					14F4AP	I	Vienna Mine	32	6N	14E	8900
16D5	I	Whitebird Summit					16D5	I	Whitebird Summit	17	29N	2E	4390
14D4	I	Williams Creek					14D4	I	Williams Creek	34	21N	20E	7800

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
NAME	NO.	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	AVERAGE ^b

UPPER COLUMBIA RIVER BASINKOOTENAI RIVER

Smith Creek	16A1	4800	3/29	124	49.3	47.4	50.9
-------------	------	------	------	-----	------	------	------

PEND OREILLE - PRIEST RIVER

Benton Meadow	16A2	2344	3/31	5	1.6	2.8	3.3
Benton Spring	16A3	4900	3/31	64	23.0	19.0	22.9
#Mosquito Ridge	16A4	5110	4/6	119	51.0	39.0	41.2
Schweitzer Bowl	16A6	4500	4/1	101	39.3	34.2	--
Schweitzer Ridge	16A5	6100	4/1	143	57.7	48.8	--

SPOKANE RIVER

Above Burke	15B8	4100	3/29	75	28.5	26.7	22.5
Above Roland	15B7	4350	3/30	104	41.1	29.7	32.3
Below Roland	15B6	3770	3/30	48	18.9	15.2	15.5
Copper Ridge	16B2	4800	3/31	82	33.6	29.4	33.3
#Forty-nine Meadows	15B3	5000	4/1	89	34.2	34.7	39.4
Fourth of July Summit	16B3	3100	3/30	25	8.2	8.2	11.2
Granite Peak	15B13	6000	4/1	143	52.4	47.0	--
Kellogg Peak	16B5	5560	4/4	90	36.1	32.4	35.8*
Lookout	15B2	5250	3/30	114	40.8	34.3	40.5
#Lost Lake	15B14	6000	4/1	169	67.4	53.6	--
Lower Sands Creek	16B1	3400	4/3	49	17.4	20.2	22.7*
Medicine Ridge	15B4	6150	4/1	143	57.2	46.8	--
Mosquito Ridge	16A4	5110	4/6	119	51.0	39.0	41.2
Outlaw Creek	15B12	3750	4/1	46	15.0	18.0	--
Pegleg Mountain	15B15	5735	4/1	40	12.4	--	--
Roland Summit	15B5	5200	3/30	130	47.1	27.7	44.7*
Sherwin	16C1	3200	3/30	41	13.0	11.3	15.8
Sunset	15B9	5600	3/28	111	43.5	35.3	36.3*
Timber Camp Flat	15B16	4300	4/1	65	23.1	--	--

LOWER SNAKE RIVER BASINPALOUSE RIVER

Crumarine Creek	16C6	3500	3/29	8	1.1	0.0	4.7*
East Twin	16C3	4000	3/29	31	9.2	13.0	12.3*
Howard Creek	16C5	3500	3/29	7	1.0	0.0	0.0*
Moscow Mountain	16C2	4800	3/29	49	14.6	18.9	21.2*
Upper Moscow Mtn.	16C7	4950	3/29	52	15.0	--	--
Upper Moscow Mtn. (R)	16C7	4950	3/29	--	15.6	--	--
West Twin	16C4	4200	3/29	23	6.1	9.1	11.2*

(b) 1948-62, 15 year period. * Not located directly on this drainage. * Estimated 1948-62, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
NAME	NO.	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches) <i>b</i>	PAST RECORD

CLEARWATER RIVER

Above Greer	16C11	1240	3/27	0	0.0	0.0	--
Anderson Butte (A)	15D7	6800	4/3	111	38.8	--	--
Buck Meadows	15D5	5600	3/27	85	31.8	25.8	--
Buck Meadows (SP)	15D5	5600	3/27	--	34.1	--	--
Cayuse Airstrip	15C3	3700	4/1	25	9.0	11.3	11.3*
Coolwater Mountain	15C7	6200	4/2	93	33.2	25.5	--
Coolwater Mountain (R)	15C7	6200	4/1	--	34.2	25.7	--
Copper Butte (A)	15D10	6000	4/3	87	31.3	--	--
Crater Meadows	15C9	6100	4/1	125	51.2	40.8	--
Crooked Fork	14C10	3800	3/27	42	14.1	14.2	--
Disgrace Butte (A)	15D11	6600	4/3	75	27.0	--	--
Elk Butte	16C15	5550	3/25	110	42.4	38.2	--
Elk Mountain (A)	15D13	6900	4/3	115	41.4	--	--
Falls Point (A)	15C11	4600	4/3	63	23.3	--	--
Fish Lake Airstrip	15C2	5000	4/2	118	43.6	39.0	42.9*
Forest	16C9	4550	3/27	12	4.3	10.9	6.2*
Forty-nine Meadows	15B3	5000	4/1	89	34.2	34.7	39.4
Goat Lake	14C9	6600	4/1	133	53.6	46.0	--
#Granite Peak	15B13	6000	4/1	143	52.4	47.0	--
Greer Summit	16C13	3000	3/27	0	0.0	0.0	--
Hemlock Butte	16C6	5500	4/1	142	53.0	47.1	--
Hemlock Butte (R)	16C6	5500	4/1	--	61.8	43.8	--
Hemlock Butte (SP)	16C6	5500	4/1	--	61.0	41.5	--
#Hoodoo Creek Mont.	15C1	5900	3/27	141	53.4	42.6	53.4
#Hoodoo Creek(SP)Mont.	15C8	6000	4/1	--	54.8	--	--
Horse Creek #1	15C14	5500	4/3	77	28.5	--	--
Horse Point (A)	15D21	5700	4/3	66	24.4	--	--
Indian Hill (A)	15D22	6100	4/3	66	23.8	--	--
Kit Carson Pasture	14D3	5020	3/31	30	10.6	6.6	9.0
Lolo Pass	14C5	5230	3/27	94	37.8	27.5	36.4*
Lost Lake	15B14	6000	4/1	169	67.4	53.6	--
McCann	16C8	4300	3/27	14	5.3	11.6	6.3*
Meadow Cr. Lookout (A)	15D17	7000	4/3	89	32.0	--	--
#Medicine Ridge	15B4	6150	4/1	143	57.2	46.8	--
Midway	16C12	2200	3/27	0	0.0	0.0	--
Mill Site (SP)	15D18	6700	3/27	--	35.0	--	--
Mountain Meadows	15D6	6300	3/27	74	26.1	19.8	--
Mountain Meadows (A)	15D6	6300	4/3	65	23.4	--	--
#Nez Perce Pass Mont.	14D1	6570	3/31	52	19.4	13.1	18.3
Orogrande Mountain	15D4	7800	4/2	116	41.2	34.5	--
Orogrande Mountain (R)	15D4	7800	4/1	--	41.7	--	--
Pierce Rgr. Sta.	15C5	3170	3/28	29	9.6	13.1	11.0*
Powell Rgr. Sta.	14C6	4230	3/27	37	13.4	12.7	13.8*
Sable Hill (A)	15D20	6000	4/3	60	21.6	--	--
Savage Pass	14C4	6600	3/27	85	32.0	25.9	30.5*
Shanghai Summit	15C4	4600	4/1	79	32.2	21.6	31.6
Sweeney	16C10	4435	3/27	18	6.0	11.0	--

(b) 1948-62, 15 year period. * Not located directly on this drainage. * Estimated 1948-62, 15 year Average. (A) Aerial observation: Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches) <i>b</i>	LAST YEAR
<u>SALMON RIVER</u>							
Big Creek Summit	15E2	6600	3/30	113	39.3	30.6	38.5
Borah (A)	13E8	8250	4/2	24	6.1	3.3	--
#Boulder Creek	16D1	5500	3/30	68	24.4	23.1	25.2
Brundage Mountain	16D6	7600	3/28	146	56.5	43.2	--
Chapman Creek	16D2	4215	3/27	7	1.7	4.8	1.4*
#Deadwood Summit (A)	15E4	7000	4/2	137	51.6	38.4	48.5
Doublespring Pass (A)	13E25	8400	4/2	42	15.0	--	--
#Galena Summit	14F12	8795	3/31	75	25.1	18.3	24.3*
#Gibbons Pass Mont.	13D2	7100	3/28	64	26.2	15.4	25.0
Johns Creek	16D3	3805	3/27	0	0.0	1.1	0.8*
Leatherman Pass (A)	13E24	9800	4/2	85	30.1	--	--
#Lemhi Pass Mont.	13E1	7480	3/30	36	9.4	5.6	9.2
#Lemhi Ridge Mont.	13E23	8100	3/30	37	10.0	--	--
Mill Creek Summit	14E1	8870	3/31	70	24.8	17.5	23.5*
Moose Creek	13D16	6200	3/31	50	18.4	10.4	17.1
Morgan Creek	14E4	7580	3/29	48	15.6	10.2	--
Redfish Lake	14E2	6600	3/29	32	9.1	6.5	--
#Rock Flat Summit	16E1	5200	3/28	60	19.9	16.4	19.9
#Secesh Summit	15D1	6600	3/31	114	42.1	--	--
#Squaw Flat (A)	16E5	6230	4/2	84	29.2	29.4	--
#Squaw Meadow	15D2	5800	3/31	112	42.6	34.7	41.0
Twin Peaks (A)	14E3	10300	4/2	87	30.8	22.3	--
Vienna Mine	14F4	8900	3/27	95	38.5	27.7	37.1*
Whitebird Summit	16D5	4390	3/27	16	5.2	7.4	6.4*
Williams Creek Summit	14D4	7800	3/31	48	13.4	8.3	14.9
<u>Lemhi River</u>							
Above Gilmore	13E19	8200	3/28	36	9.5	7.5	--
Aspen Hall Pass	13E21	8110	3/27	39	11.0	7.2	--
Copes Camp	13E17	7500	3/27	32	8.4	6.5	--
Gertson Creek	13D17	8050	3/28	31	8.2	4.8	--
Hall Creek	13E20	7560	3/27	24	6.1	3.1	--
Meadow Lake	13E18	9100	3/27	59	20.2	12.5	--
Schwartz Lake	13E16	8500	3/27	44	12.6	8.6	--
<u>SOIL MOISTURE</u>							
STATION		PROFILE (Inches)		SOIL MOISTURE (Inches)			
NAME	ELEVATION	DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
<u>SPOKANE RIVER</u>							
Fourth of July Summit		3100	48	11.6	3/30	10.2	10.3
Lookout		5250	48	11.0	3/30	8.2	8.1
<u>CLEARWATER RIVER</u>							
Brown		3100	36	6.7	3/27	5.6	5.6
Fohl		3450	48	13.3	3/27	9.7	9.9
<u>SALMON RIVER</u>							
Mill Creek Summit		8870	48	8.4	3/31	3.0	4.8
<u>Lemhi River</u>							
Above Gilmore		8200	60	5.4	3/27	1.8	2.8
Meadow Lake		9100	48	4.4	3/27	1.6	1.9

(b) 1948-62, 15 year period. * Not located directly on this drainage. * Estimated 1948-62, 15 year Average. (A) Aerial observation: Water content estimated. (SP) Pressure Pillow snow-water equivalent.

(R) Radioactive Gage snow-water equivalent.

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
NAME	NO.	ELEVATION	DATE OF SURVEY	SNOW DEPTH (inches)	WATER CONTENT (inches)	WATER CONTENT (inches)	AVERAGE ^b

MIDDLE SNAKE RIVER BASIN - NORTHSIDELITTLE LOST RIVER

Fairview Guard Sta.	13E5	6750	3/30	14	3.8	T	4.4*
Lost Garfield	13E3	6600	3/30	9	1.9	0.0	2.7*
Moonshine	13E6	7450	3/30	45	13.3	6.2	10.9*
Sawmill Canyon	13E4	6900	3/30	35	10.6	4.7	8.0*
Wet Creek Summit	13E7	7600	3/28	55	19.6	9.5	11.2*

BIG LOST RIVER

Bear Canyon	13F3	8600	3/27	76	27.2	15.7	17.6*
Cherry Creek Pass (A)	13F13	8900	3/27	11	3.2	1.7	--
Copper Basin	13F2	8000	3/27	47	16.8	8.4	9.1
#Doublespring Pass (A)	13E25	8400	4/2	42	15.0	--	--
Dry Fork (A)	13F20	7340	3/27	57	22.1	--	--
Iron Bog	13F11	7650	3/27	53	20.5	11.6	--
Leadbelt	13F12	6800	3/27	41	13.6	7.6	--
#Leatherman Pass (A)	13E24	9800	4/2	85	30.1	--	--
Lost-Wood Divide (A)	14F3	7900	3/27	76	28.1	20.0	24.3*
Mammoth Canyon (A)	13F17	8300	3/27	57	22.1	--	--
North Fork Meadow (A)	14F15	8150	3/27	48	17.8	10.3	--
Sage Creek (A)	14E5	7800	4/2	37	11.7	--	--
Slickrock (A)	13F14	8640	3/27	75	27.8	16.4	--
Stickney Mill	14F2	7500	3/27	41	12.9	9.1	9.1
White Knob	13F1	7700	3/28	44	13.0	6.0	9.1*

FISH CREEK

#Dry Fork (A)	13F20	7340	3/27	57	22.1	--	--
Iron Mine Creek	13F10	6370	3/27	37	12.3	7.3	10.5*
Telfer Ranch	13F6	6000	3/27	23	8.2	7.0	5.8*

LITTLE WOOD RIVER

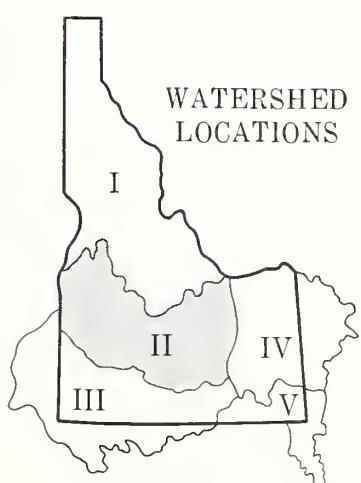
#Bear Canyon	13F3	8600	3/27	76	27.2	15.7	17.6*
Garfield Rgr. Sta.	13F4	6554	3/28	32	11.6	7.9	10.5*
Muldoon	13F5	6300	3/28	21	7.4	5.6	7.1*
Porcupine (A)	14F14	8350	3/27	62	22.9	16.0	--
Swede Peak	13F9	7500	3/28	64	22.9	14.3	17.4*

BIG WOOD RIVER

Camas Creeks Div. (A)	15F9	5720	4/2	25	7.8	2.8	--
#Couch Summit	14F10	6950	3/30	60	21.7	14.9	20.0
Dollarhide Summit (A)	14F8	8620	3/27	71	26.8	16.3	27.4*
Galena	14F1	7300	3/31	65	22.3	14.6	19.5
Galena Summit	14F12	8795	3/31	75	25.1	18.3	24.3*

(b) 1948-62, 15 year period. * Not located directly on this drainage. * Estimated 1948-62, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent.
(R) Radioactive Gage snow-water equivalent.

MIDDLE SNAKE RIVER BASIN NORTHSIDE



LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- ▲ Forecast Point
- Snow Course
- † Aeriel Snow Depth Goge
- Soil Moisture Station
- Snow Pressure
- Temperoture Goge
- Precipitation Goge
- ⚡ Radio Telemetry

INDEX to SNOW COURSES

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE. LONG.	ELEV.	NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE. LONG.	ELEV.							
MIDDLE SNAKE RIVER BASIN																				
NORTHSIDE																				
LITTLE LOST RIVER																				
13E5M	I	Fairview Guard Station	27	12N	26E	6750	15F4AP	I	Atlanta Summit	23	5N	10E	7500							
13E3	I	Lost-Garfield	3	11N	26E	6600	15F2M	I	Bad Bear	35	7N	6E	5500							
13E6	I	Moonshine	31	13N	26E	7450	16F4	I	Bogus Basin	32	5N	3E	5360							
13E4	I	Sawmill Canyon	17	12N	26E	6900	16F5m	I	Bogus Basin Road	36	5N	2E	4830							
13E7MAP	I	Wet Creek Summit	15	8N	25E	7600	14F10A	I	Couch Summit	9	2N	14E	6950							
BIG LOST RIVER																				
13F18p	I	Antelope Pass	7	5N	23E	8800	15F10a	I	Danskin	17	1N	7E	5650							
13F3	I	Bear Canyon	26	5N	21E	8600	16F1	I	Deadman Gulch	29	7N	4E	5600							
13F13a	I	Cherry Creek Pass	7	5N	23E	8900	15E9AP	I	Jackson Peak	7	8N	9E	7000							
13F2A	I	Copper Basin	24	6N	21E	8000	15F1MP	I	Moores Creek Summit	19	7N	7E	6100							
13F19p	I	Corral Creek Summit	25	7N	22E	8550	15F6P	I	Prairie	13	2N	7E	4900							
13F20ap	I	Dry Fork	23	3N	23E	7340	15F3A	I	Road Creek	5	5N	8E	5550							
13F11	I	Iron Bog	23	4N	22E	7650	15F5AP	I	Trinity Mountain	7	3N	9E	7400							
13F12	I	Leadbelt	34	4N	23E	6800	15F11a	I	Willow Creek Cabin	26	1N	6E	4710							
14F3A	I	Lost Wood Divide	19	6N	19E	7900	CANYON CREEK													
13F17ap	I	Mammoth Canyon	14	6N	23E	8300	15F7	I	Bennett Mountain	7	2S	9E	6650							
14F15a	I	North Fork Meadows	20	7N	18E	8150	15F8	I	Dixie Hill	13	2S	8E	5230							
14F6p	I	Park Creek	18	6N	19E	7685	15F12a	I	Little Camas Flat	21	1S	9E	4950							
14E5ap	I	Sage Creek	12	9N	20E	7800	15F13a	I	Long Tom	19	1S	8E	4550							
13F14ap	I	Slickrock	17	4N	22E	8640	PAYETTE RIVER													
14F2A	I	Stickney Mill	9	6N	19E	7500	16F2MP	I	Bogus Basin	16	5N	3E	6120							
13F15a	I	Twin Rocks	22	4N	22E	8100	15E8	I	Cozy Cove	19	11N	7E	5900							
13F1	I	White Knobs	25	7N	23E	7700	15E3	I	Crawford Ranger Station	21	14N	4E	4800							
BIG WOOD RIVER																				
15F9a	I	Camas Creek Divide	11	2S	9E	5720	15E10	I	Deadwood Airstrip	8	11N	7E	5440							
14F8AP	I	Dollarhide Summit	16	3N	15E	8620	15E7	I	Deadwood Dam	8	11N	7E	5290							
14F1M	I	Galena	3	6N	15E	7300	15E4A	I	Deadwood Summit	23	14N	7E	7000							
14F12MP	I	Galena Summit	33	7N	15E	8795	16E7a	I	Greenfield Flat	1	13N	2E	7370							
14F5	I	Graham Ranch	10	5N	17E	6200	16E4	I	High Valley Summit	9	10N	2E	5170							
14F7	I	Mascot Mine	8	4N	20E	7900	15E1	I	Lake Fork	3	18N	4E	6000							
14F9	I	Mount Baldy	26	4N	17E	9000	16E1	I	Rock Flat Summit	1	18N	2E	5200							
14F11	I	Soldier Ranger Station	19	2N	14E	6100	15E5A	I	Silver Creek Ridge	24	12N	5E	5700							
LITTLE WOOD RIVER																				
13F4M	I	Garfield Ranger Station	11	3N	21E	6554	15D2A	I	Squaw Meadows	5	21N	4E	5800							
13F5	I	Muldoon	25	3N	21E	6300	16E3	I	Tripod Summit	17	11N	3E	5200							
14F13m	I	Niggerhead	26	2N	20E	5450	WEISER RIVER													
14F14a	I	Porcupine	30	4N	20E	8350	16D1P	I	Boulder Creek	15	20N	1W	5500							
13F9A	I	Swede Peak	4	3N	21E	7500	16E6a	I	Mica Ridge	15	15N	2E	6800							
FISH CREEK																				
13F10	I	Iron Mine Creek	32	3N	23E	6370	16E2	I	Placer Creek	15 & 16	17N	3W	6000							
13F6	I	Telfer Ranch	12	2N	22E	6000	16E5a	I	Squaw Flat	32	17N	2E	6230							

LEGEND

Numbering System (example)

- 10J7 SNOW COURSE ONLY.
- 10J7P SNOW COURSE AND PRECIPITATION GAGE.
- 10J7M SNOW COURSE AND SOIL MOISTURE STATION.
- 10J7A SNOW COURSE AND AERIAL MARKER.
- 10J7MA SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
- 10J7MP SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
- 10J7m SOIL MOISTURE STATION ONLY.
- 10J7 a AERIAL MARKER ONLY.
- 10J7 p STORAGE PRECIPITATION GAGE ONLY.

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
NAME	NO.	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (inches)	WATER CONTENT (inches)	AVERAGE ^b
Graham Ranch	14F5	6200	3/31	51	16.8	11.5	13.4
#Lost-Wood Divide (A)	14F3	7900	3/27	76	28.1	20.0	24.3*
Mascot Mine	14F7	7900	3/29	64	19.8	9.4	15.7
Mount Baldy	14F9	9000	3/30	79	25.2	15.3	21.8*
#Porcupine (A)	14F14	8350	3/27	62	22.9	16.0	--
Soldier Rgr. Sta.	14F11	6100	3/30	25	9.4	8.7	11.3
#Vienna Mine	14F4	8900	3/27	95	38.5	27.7	37.1*
CANYON CREEK							
Bennett Mountain	15F7	6650	3/28	48	16.4	9.2	--
#Camas Creeks Div. (A)	15F9	5720	4/2	25	7.8	2.8	--
#Danskin (A)	15F10	5650	4/2	29	9.1	3.1	--
Dixie Hill	15F8	5230	3/28	0	0.0	T	--
Little Camas Flat (A)	15F12	4950	4/2	0	0.0	0.0	--
Long Tom (A)	15F13	4550	4/2	0	0.0	0.0	--
#Willow Creek Cabin (A)	15F11	4710	4/2	0	0.0	0.0	--
BOISE RIVER							
Atlanta Summit	15F4	7500	3/27	90	33.9	27.0	36.6
Atlanta Summit (A)	15F4	7500	4/1	103	35.6	--	--
Bad Bear	15F2	5500	3/29	31	9.7	9.8	--
#Bennett Mountain	15F7	6650	3/28	48	16.4	9.2	--
#Bogus Basin	16F2	6120	4/3	63	22.7	14.9	25.1
#Bogus Basin (SP)	16F2	6120	4/3	--	22.4	--	--
Bogus Basin Road	16F4	5360	4/3	0	0.0	0.0	2.2*
#Camas Creeks Div. (A)	15F9	5720	4/2	25	7.8	2.8	--
Couch Summit	14F10	6950	3/30	60	21.7	14.9	20.0
Danskin (A)	15F10	5650	4/2	29	9.1	3.1	--
Deadman Gulch	16F1	5600	3/29	43	13.3	11.5	17.4*
#Dixie Hill	15F8	5230	3/28	0	0.0	T	--
#Dollarhide Summit (A)	14F8	8620	3/27	71	26.8	16.3	27.4*
Jackson Peak (A)	15E9	7000	4/2	97	31.8	27.8	32.6*
#Little Camas Flat (A)	15F12	4950	4/2	0	0.0	0.0	--
#Long Tom (A)	15F13	4550	4/2	0	0.0	0.0	--
Moores Creek Summit	15F1	6100	3/29	90	31.8	25.6	34.0
Prairie	15F6	4900	4/2	0	0.0	T	4.8*
Road Creek	15F3	5550	3/27	16	5.5	7.6	12.1*
#Shafer Butte	16F7	7480	4/3	79	31.5	--	--
#Soldier Rgr. Sta.	14F11	6100	3/30	25	9.4	8.7	11.3
Trinity Mountain	15F5	7400	3/27	102	42.7	36.1	46.2
Trinity Mountain (A)	15F5	7400	4/2	118	45.8	--	--
Trinity Mountain (SP)	15F5	7400	4/1	--	48.2	33.7	--
#Vienna Mine	14F4	8900	3/27	95	38.5	27.7	37.1*
Willow Creek Cabin (A)	15F11	4710	4/2	0	0.0	0.0	--

(b) 1948-62, 15 year period. * Not located directly on this drainage. • Estimated 1948-62, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
NAME	NO.	ELEVATION	DATE OF SURVEY	SNOW DEPTH (inches)	WATER CONTENT (inches)	WATER CONTENT (inches) ^b	PAST RECORD
						LAST YEAR	AVERAGE

PAYETTE RIVER

#Big Creek Summit	15E2	6600	3/30	113	39.3	30.6	38.5
Bogus Basin	16F2	6120	4/3	63	22.7	14.9	25.1
Bogus Basin (SP)	16F2	6120	4/3	--	22.4	--	--
#Brundage Mountain	16D6	7700	3/28	146	56.5	43.2	--
Cozy Cove	15E8	5900	3/27	45	16.4	14.9	17.2
Crawford Rgr. Sta.	15E3	4800	3/30	19	6.4	5.9	6.9*
#Deadman Gulch	16F1	5600	3/29	43	13.3	11.5	17.4*
Deadwood Airstrip	15E10	5440	3/27	41	14.8	15.3	16.1*
Deadwood Dam	15E7	5290	3/27	49	17.8	16.4	19.1
Deadwood Summit (A)	15E4	7000	4/2	137	51.6	38.4	48.5
Greenfield Flat (A)	16E7	7370	4/2	127	44.2	35.1	--
High Valley Summit	16E4	5170	3/28	32	10.2	9.1	--
#Jackson Peak (A)	15E9	7000	4/2	97	31.8	27.8	32.6*
Lake Fork	15E1	6000	3/28	58	18.1	13.4	17.3
#Mica Ridge (A)	16E6	6800	4/2	92	32.0	31.8	--
Rock Flat Summit	16E1	5200	3/28	60	19.9	16.4	19.9
Secesh Summit	15D1	6600	3/31	114	42.1	--	--
Shafer Butte	16F7	7480	4/3	79	31.5	--	--
Silver Creek Ridge (A)	15E5	5700	4/2	48	16.0	14.5	--
#Squaw Flat (A)	16E5	6230	4/2	84	29.2	29.4	--
Squaw Meadow	15D2	5800	3/31	112	42.6	34.7	41.0
Tripod Summit	16E3	5200	4/2	53	16.8	12.5	--

WEISER RIVER

Boulder Creek	16D1	5500	3/30	68	24.4	23.1	25.2
Mica Ridge (A)	16E6	6800	4/2	92	32.0	31.8	--
Placer Creek	16E2	6000	3/29	62	18.6	14.6	19.2
Squaw Flat (A)	16E5	6230	4/2	84	29.2	29.4	--

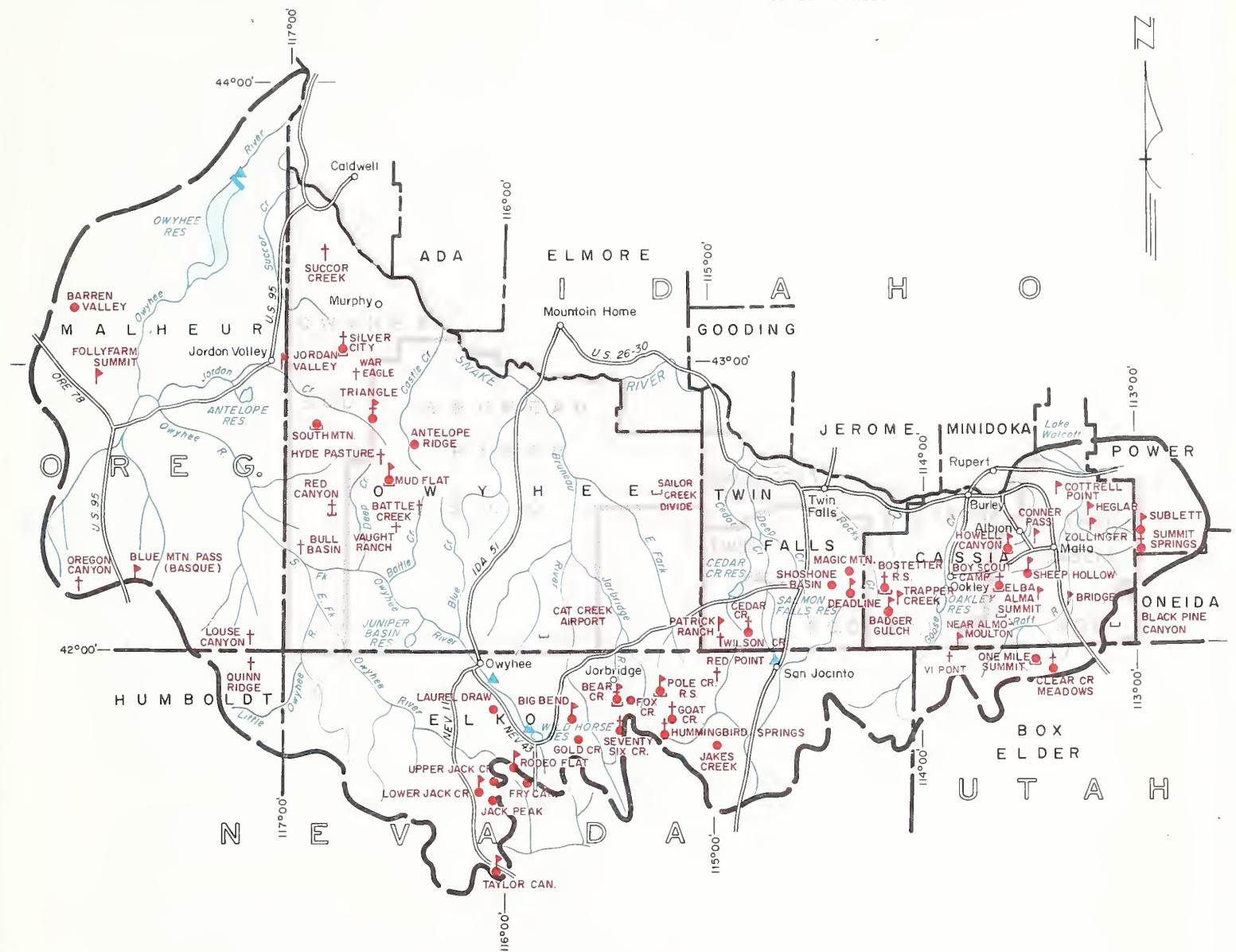
SOIL MOISTURE

STATION		PROFILE (inches)		SOIL MOISTURE (inches)			
NAME	ELEVATION	DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
<u>LITTLE WOOD RIVER</u>							
Garfield R. S.	6554	36	5.2	3/28	4.2	4.2	4.6
<u>BIG WOOD RIVER</u>							
Galena	7300	48	10.1	3/31	6.1	6.7	--
Galena Summit	8795	48	5.8	3/31	1.5	1.8	1.5
<u>BOISE RIVER</u>							
Bogus Basin Road	4830	48	7.1	4/3	5.7	5.6	6.0
Moores Creek Summit	6100	60	8.8	3/29	7.5	7.5	--

(b) 1948-62, 15 year period. * Not located directly on this drainage. * Estimated 1948-62, 15 year Average. (A) Aerial observation: Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

MIDDLE SNAKE RIVER BASIN SOUTHSIDE

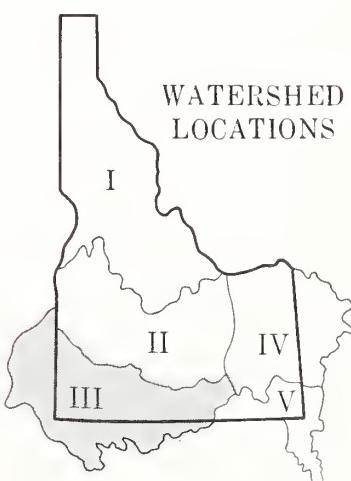
25 0 25 50 75
SCALE IN MILES



LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- ▲ Forecast Point
- Snow Course
- † Aerial Snow Depth Gage
- 旗 Soil Moisture Station
- Temperature Gage
- Precipitation Gage
- ⚡ Radio Telemetry

WATERSHED LOCATIONS



INDEX to SNOW COURSES

NO.	STATE	NAME	SEC. OR LAT.			TWP. AND LONG.	RGE. ELEV.	NO.	STATE	NAME	SEC. OR LAT.			TWP. AND LONG.	RGE. ELEV.									
			—	—	—						—	—	—											
MIDDLE SNAKE RIVER BASIN																								
SOUTHSIDE																								
RAFT RIVER																								
13G15p	I	Black Pine Canyon	28	15S	29E	7100		15H1MAP	N	Bear Creek	31	46N	58E	7800										
13G2AP	I	Boy Scout Camp	8	14S	24E	7600		15G3p	I	Cat Creek Airport	9	16S	6E	5700										
13H2A	U	Clear Creek Meadows	26	14N	14W	9050		15H2	N	Fox Creek	33	46N	58E	6800										
13G6m	I	Conner Pass	35	12S	25E	5700		15H15A	N	Hummingbird Springs	6	45N	60E	8945										
13G7m	I	Cottrell Point	24	10S	25E	4490		15H14MP	N	Pole Creek Ranger Station	13	46N	59E	8330										
13G10m	I	Elba-Almo Summit	29	14S	25E	5690		15G4p	I	Sailor Creek Divide	21	10S	10E	4350										
13G8m	I	Helgar	19	11S	28E	4590	BRUNEAU RIVER																	
13G11MP	I	Howell Canyon	2	13S	24E	8000		16G6	I	Antelope Ridge	20	8S	1E	5900										
13G12m	I	Moulton	27	16S	23E	5950		18F5	O	Barren Valley	26	17S	38E	4200										
13G14p	I	Near Almo	35	15S	24E	5200		16G9a	I	Battle Creek	10	11S	1E	5700										
13H1P	U	One Mile Summit	19	14N	14W	7330		15H4M	N	Big Bend	30	45N	56E	6700										
13G5M	I	Sheep Hollow	4	14S	24E	6200		17G2m	O	Blue Mountain Pass (Basque)	4	38S	42E	5290										
13G3M	I	Sublett	8	12S	30E	6000		16G10a	I	Bull Basin	19	12S	5W	5600										
13G4A	I	Summit Springs	15	13S	30E	6400		18G3m	O	Folly Farm Summit	8	30S	38E	4450										
13G9m	I	Zollinger	2	13S	28E	5000		15H7	N	Fry Canyon	31	43N	54E	6700										
GOOSE - TRAPPER CREEK																								
14G3M	I	Badger Gulch	24	15S	19E	6660		15H5	N	Gold Creek	31	45N	56E	6600										
14G1AP	I	Bostetter Ranger Station	35	14S	19E	7500		16G5a	I	Hyde Pasture	SE $\frac{1}{4}$	31	8S	2W	5800									
14G7m	I	Trapper Creek	2	15S	20E	5300		16H4	N	Jacks Peak	28	42N	53E	8420										
13H3a	U	Vi Pont	17	14N	17W	7670		17G3m	O	Jordan Valley	2	30S	46E	4390										
SALMON FALLS CREEK																								
14G5A	I	Cedar Creek	25	15S	13E	7000		16H5	N	Laurel Draw	20	45N	53E	6700										
14G4M	I	Deadline	25	14S	18E	6900		17G4a	O	Louise Canyon	27	40S	44E	6440										
15H13A	N	Goat Creek	31	46N	60E	8800		16H1M	N	Lower Jack Creek	18	42N	53E	6800										
14H1	N	Jakes Creek	6	42N	62E	7000		16G7MP	I	Mud Flat	34	9S	2W	5500										
14G2	I	Magic Mountain	14	14S	18E	6700		17G5a	O	Oregon Canyon	9	40S	40E	6950										
15G1m	I	Patrick Ranch	23	15S	12E	5720		17H6a	N	Quinn Ridge	9	47N	41E	6300										
15H18a	N	Red Point	15	47N	61E	7940		16G11ap	I	Red Canyon	32	11S	4W	6650										
14G6	I	Shoshone Basin	24	14S	17E	5740		15H6M	N	Rodeo Flat	36	43N	53E	6800										
15G2a	I	Wilson Creek	24	16S	12E	7500		16F3AP	I	Silver City	6	5S	3W	6400										

LEGEND

Numbering System (example)

- 10J7 SNOW COURSE ONLY.
- 10J7P SNOW COURSE AND PRECIPITATION GAGE.
- 10J7M SNOW COURSE AND SOIL MOISTURE STATION.
- 10J7A SNOW COURSE AND AERIAL MARKER.
- 10J7MA SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
- 10J7MP SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
- 10J7 m SOIL MOISTURE STATION ONLY.
- 10J7 a AERIAL MARKER ONLY.
- 10J7 p STORAGE PRECIPITATION GAGE ONLY.

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
NAME	NO.	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (inches)	WATER CONTENT (Inches)	AVERAGE b

MIDDLE SNAKE RIVER BASIN - SOUTHSIDERAFT RIVER

Boy Scout Camp	13G2	7600	4/2	38	12.7	12.8	16.9*
Clear Creek Meadows	13H2	9050	4/2	72	21.4	18.4	--
Howell Canyon	13G1	8000	3/25	54	21.3	16.9	27.6*
One Mile Summit	13H1	7330	4/2	26	6.5	7.5	--
Sheep Hollow	13G5	6200	4/2	T	T	3.8	--
Sublett	12G8	6000	4/2	24	8.2	7.7	11.4
Summit Springs	12G9	6400	4/2	26	8.6	5.8	9.6*

GOOSE CREEK

Badger Gulch	14G3	6660	3/31	28	9.7	8.4	14.3
Bostetter Rgr. Sta.	14G1	7500	3/31	49	16.3	12.8	21.0

SALMON FALLS CREEK

#Bear Creek	15H1	7800	3/30	62	20.1	16.5	21.0
Cedar Creek	14G5	7000	3/30	27	8.1	6.8	11.9*
Deadline	14G4	6900	3/30	53	17.6	15.4	24.4*
Goat Creek	15H13	8800	3/30	55	17.3	13.9	19.5*
#Hummingbird Springs	15H15	8945	3/30	68	22.3	17.2	23.0*
Magic Mountain	14G2	6700	3/27	39	13.2	11.7	19.9
#Pole Creek R. S.	15H14	8330	3/30	60	19.8	16.5	20.2*
Red Point	15H18	7940	3/30	32	11.1	0.0	--
Shoshone Basin	14G6	5740	3/29	3	0.0	**	3.3*
Wilson Creek	15G2	7500	3/30	43	14.5	8.1	--

BRUNEAU RIVER

Bear Creek	15H1	7800	3/30	62	20.1	16.5	21.0
Hummingbird Springs	15H15	8945	3/30	68	22.3	17.2	23.0*
Pole Creek Rgr. Sta.	15H14	8330	3/30	60	19.8	16.5	20.2*
#Seventy-six Creek (A)	15H3	7100	4/1	21	6.9	7.3	14.5*

OWYHEE RIVER

Antelope Ridge	16G6	5900	3/28	16	4.9	0.0	--
Battle Creek (A)	16G9	5700	Delayed		0.0	0.0	--
#Bear Creek	15H1	7800	3/30	62	20.1	16.5	21.0
Bull Basin (A)	16G10	5600	Delayed		0.0	0.0	--
Hyde Pasture	16G5	5800	Delayed		0.0	0.0	--
Mud Flat	16G7	5500	3/28	10	3.1	1.4	4.5*

** Flooded

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
NAME	NO.	ELEVATION	DATE OF SURVEY	SNOW DEPTH (inches)	WATER CONTENT (inches)	WATER CONTENT (inches)	AVERAGE <i>b</i>
Red Canyon (A)	16G11	6650		Delayed	0.7	--	
#Seventy-six Creek (A)	15H3	7100	4/1	21	6.9	7.3	14.5*
Silver City	16F3	6400	3/28	39	14.6	10.9	16.3*
South Mountain	16G1	6340	3/29	33	10.5	4.9	13.2*
Succor Creek (A)	16F6	6100		Delayed	0.7	--	
Triangle	16G4	5150		Delayed	0.0	--	
Vaught Ranch (A)	16G12	5950		Delayed	0.0	--	
War Eagle (A)	16G13	7700		Delayed	15.0	--	

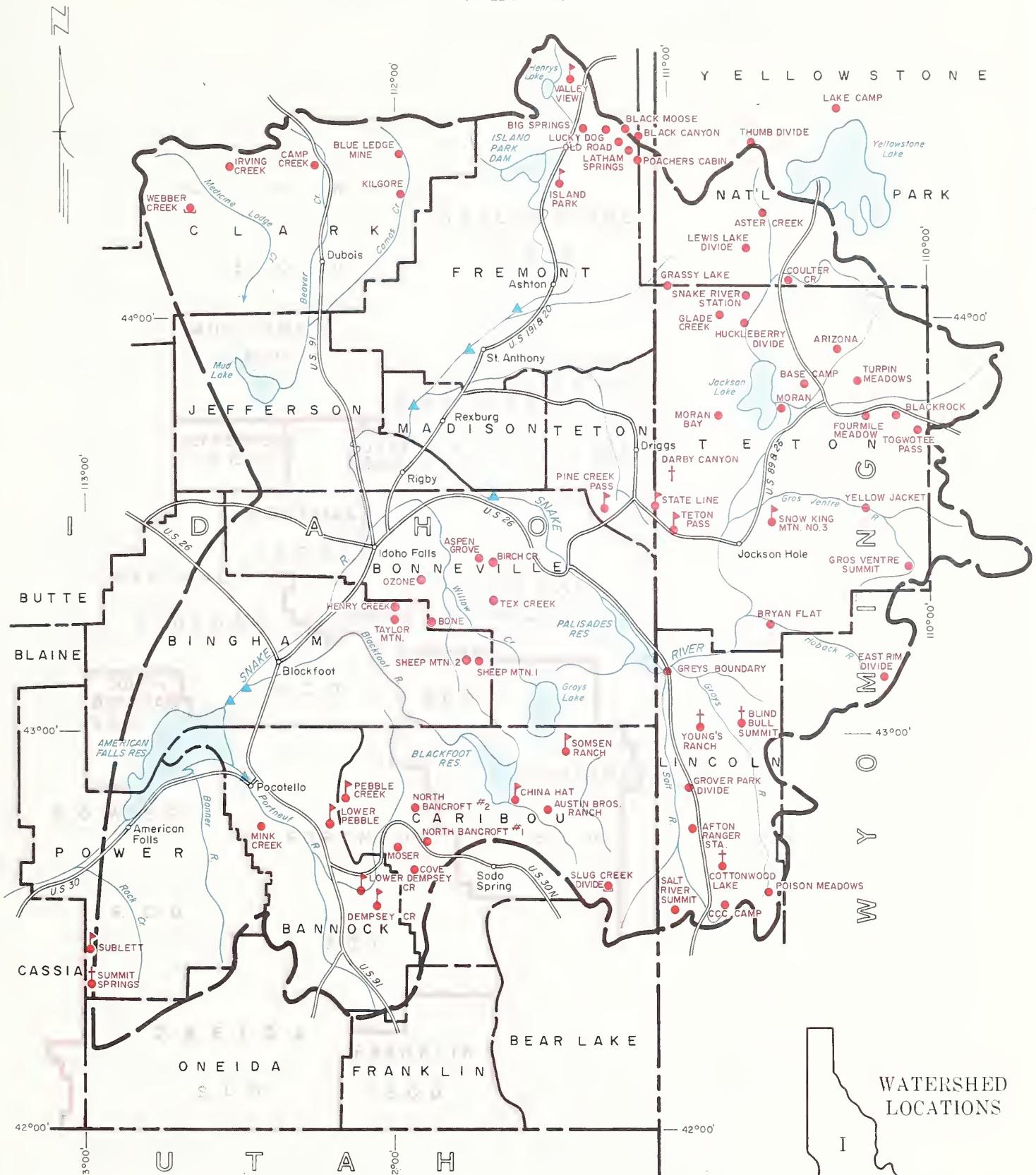
SOIL MOISTURE

STATION		PROFILE (Inches)		SOIL MOISTURE (Inches)			
NAME	ELEVATION	DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
<u>RAFT RIVER</u>							
Conner Pass	5700	36	9.8	4/4	7.6	9.1	--
Howell Canyon	8000	48	11.5	3/25	4.8	8.5	5.5
Sublett	6000	36	7.0	4/2	6.0	6.5	7.5
<u>GOOSE CREEK</u>							
Badger Gulch	6660	36	7.0	3/31	5.6	5.5	6.9
Trapper Creek	5300	36	10.0	3/31	4.7	7.6	8.1
<u>SALMON FALLS CREEK</u>							
Deadline	6900	36	7.4	3/30	6.5	6.7	7.9
Patrick Ranch	5720	36	7.7	3/30	6.0	4.7	--
Pole Creek R. S.	8330	48	12.7	3/30	6.7	--	8.0
<u>BRUNEAU RIVER</u>							
Bear Creek	7800	72	16.9	3/30	10.1	12.1	14.4
<u>OWYHEE RIVER</u>							
Mud Flat	5500	48	12.8	3/28	14.4	14.4	14.1

(b) 1948-62, 15 year period. * Not located directly on this drainage. * Estimated 1948-62, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

UPPER SNAKE RIVER BASIN

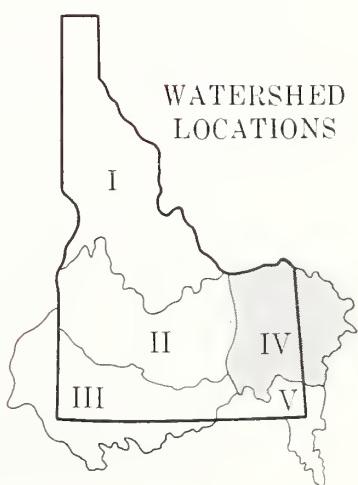
25 0 25 50
SCALE IN MILES



LEGEND

- | | |
|---------------------------------------|--------------------------|
| — — — Watershed Boundary | ● Snow Course |
| — — — Soil Conservation District Bdry | + Aerial Snow Depth Gage |
| — — — County Boundary | ○ Soil Moisture Station |
| ▲ Forecast Point | □ Snow Pressure Pillow |
| | ■ Temperature Gage |
| | ■ Precipitation Gage |
| | ◆ Radio Telemetry |

WATERSHED LOCATIONS



INDEX to SNOW COURSES

NO.	STATE	NAME	SEC. LAT.	TWP. ANO	RGE. LONG.	ELEV.	NO.	STATE	NAME	SEC. LAT.	TWP. ANO	RGE. LONG.	ELEV.							
UPPER SNAKE RIVER BASIN																				
SNAKE RIVER - WYOMING																				
10G4	Wy	Afton Ranger Station	30	32N	118W	6200	10F21a	Wy	Darby Canyon	28	43N	118W	8250							
10F1	Wy	Arizona	3	46N	115W	6850	11F2M	I	Pine Creek Pass	24	3N	44E	6750							
10E8	Wy	Aster Creek	44° 17'	110° 38'	7700	11F1M	I	State Line	32	3N	46E	6400								
10F2	Wy	Base Camp	20	46N	113W	6900	10F13M	Wy	Teton Pass	24	41N	118W	8500							
10F7	Wy	Blackrock	4	44N	111W	8600	TETON RIVER													
10G2A	Wy	Blind Bull	6	34N	115W	8750	10F21a	Wy	Darby Canyon	28	43N	118W	8250							
10F14	Wy	Bryan Flat	9	38N	115W	6250	11F2M	I	Pine Creek Pass	24	3N	44E	6750							
10E3	Wy	Canyon	44° 44'	110° 30'	7750	11F1M	I	State Line	32	3N	46E	6400								
10G7	Wy	CCC Camp	9	29N	118W	7500	10F13M	Wy	Teton Pass	24	41N	118W	8500							
10G5A	Wy	Cottonwood Lake	25	31N	118W	7500	CAMAS - BEAVER CREEK													
10F10	Wy	Coulter Creek	44° 09'	110° 33'	7600	11E11	I	Blue Ledge Mine	27	13N	38E	6700								
10F17	Wy	East Rim Divide	32	37N	111W	7950	12E3	I	Camp Creek	21	33N	36E	6800							
10F6	Wy	Four Mile Meadows	35	45N	112W	7770	11E12	I	Kilgore	6	12N	39E	6200							
10E13	Wy	Glade Creek	12	48N	116W	7200	MEDICINE LODGE CREEK													
10F18	Wy	Greys Boundary	33	37N	118W	5800	12E4	I	Irving Creek	20	13N	33E	7035							
10F19	Wy	Gros Ventre Summit	36	40N	111W	8750	12E5	I	Webber Creek	23	12N	32E	6700							
10G3	Wy	Grover Park Divide	27	33N	118W	7500	WILLOW CREEK													
10E14	Wy	Huckleberry Divide	32	48N	115W	7300	11F10	I	Aspen Grove	35	2N	41E	6600							
10E4	Wy	Lake Camp	44° 43'	110° 24'	7850	11F3	I	Birch Creek	36	2N	41E	6800								
10B9	Wy	Lewis Lake Divide	44° 13'	110° 40'	7900	11F8	I	Bone	29	1S	40E	6200								
10F4	Wy	Moran	8 & 17	45N	114W	6800	11F4	I	Ozone	14	1N	39E	5800							
10F3	Wy	Moran Bay	14	45N	116W	6800	11F9	I	Sheep Mountain I	33	2S	41E	6450							
10E2	Wy	Norris Basin	44° 44'	110° 42'	7500	11F11	I	Sheep Mountain II	33	2S	41E	6510								
10G6	Wy	Poison Meadows	29	30N	116W	8500	11F5	I	Tex Creek	6	1S	42E	6700							
10E8	Wy	Salt River Summit	32	29N	118W	7900	SAND CREEK													
10E12	Wy	Snake River Station	9	48N	115W	6780	11F6	I	Henry Creek	7	1S	39E	5650							
10F20	Wy	Snow King Mountain #3	4	40N	117W	7600	11F7	I	Taylor Mountain	19	1S	39E	6500							
10B5	Wy	Sylvan Pass	12	52N	110W	7100	BLACKFOOT RIVER													
10E7	Wy	Thumb Divide	44° 22'	110° 35'	7900	11G3	I	Austin Brothers Ranch	28	7S	43E	6450								
10F9	Wy	Togwotee Pass	29	44N	110W	9600	11G2M	I	China Hat	17	7S	42E	6300							
10F5	Wy	Turpin Meadows	14	45N	112W	6930	11G5	I	Slug Creek Divide	15	10S	44E	7225							
10G1A	Wy	Young's Ranch	26	34N	116W	6530	11G1M	I	Somsen Ranch	25	5S	43E	7000							
HENRYS FORK RIVER																				
11E9	I	Big Springs	34	14N	44E	6500	11G25	I	Cove	21	9S	39E	5525							
11E18	I	Black Canyon	11	13N	45E	7850	12G5M	I	Dempsey Creek	17	10S	38E	6280							
11E19	I	Black Moose	33	14N	45E	8125	12G7M	I	Lower Dempsey	5	10S	38E	5210							
10E15	Wy	Grassy Lake	6	48N	117W	7230	12G6M	I	Lower Pebble	7	8S	38E	5800							
11E10M	I	Island Park	29	13N	43E	6315	12G1	I	Mink Creek	33	7S	34E	6300							
11E16	I	Latham Springs	9	13N	45E	7650	11G24	I	Moser	20	8S	39E	5950							
11E14	I	Lucky Dog	2	13N	45E	6900	11G23	I	North Bancroft #1	15	8S	39E	5460							
11E15	I	Old Road	12	13N	44E	7250	11G22	I	North Bancroft #2	27	7S	39E	5430							
11E17	I	Poacher's Cabin	11	13N	45E	8000	12G2M	I	Pebble Creek	34	7S	37E	6550							
11E8M	I	Valley View	7	15N	44E	6500	PORTNEUF RIVER													

LEGEND

Numbering System (example)

- 10J7 SNOW COURSE ONLY.
- 10J7P SNOW COURSE AND PRECIPITATION GAGE.
- 10J7M SNOW COURSE AND SOIL MOISTURE STATION.
- 10J7A SNOW COURSE AND AERIAL MARKER.
- 10J7MA SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
- 10J7MP SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
- 10J7 m SOIL MOISTURE STATION ONLY.
- 10J7 a AERIAL MARKER ONLY.
- 10J7 p STORAGE PRECIPITATION GAGE ONLY.

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
NAME	NO.	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (inches)	WATER CONTENT (Inches)	AVERAGE <i>b</i>

UPPER SNAKE RIVER BASINCAMAS-BEAVER CREEKS

Blue Ledge Mine	11E11	6700	4/1	63	23.0	11.7	16.7
Camp Creek	12E3	6800	3/31	40	12.6	6.7	10.4
Kilgore	11E12	6200	4/1	34	11.1	6.8	10.0

MEDICINE LODGE CREEK

Irving Creek	12E4	7035	3/28	22	6.6	3.4	--
Webber Creek	12E5	6700	3/28	20	6.0	3.9	--

HENRYS FORK RIVER

Big Springs	11E9	6500	3/29	74	26.7	16.8	22.6
Black Canyon	11E18	7850	3/27	106	39.8	28.8	--
Black Moose	11E19	8125	3/27	107	40.0	35.0	--
Grassy Lake	10E15	7230	3/30	98	34.8	28.8	36.8
Island Park	11E10	6315	3/29	56	19.6	11.5	17.6
Latham Springs	11E16	7650	3/27	103	38.2	27.2	--
Lucky Dog	11E14	6900	3/27	81	31.7	21.6	--
Old Road	11E15	7250	3/27	82	31.6	23.2	--
Poacher's Cabin	11E17	8000	3/27	94	33.8	27.6	--
Valley View	11E8	6500	3/29	69	25.2	13.0	16.4

TETON RIVER

Darby Canyon (A)	10F21	8250	3/31	69	24.0	18.5	--
Pine Creek Pass	11F2	6750	3/31	50	17.4	13.0	--
State Line	11F1	6400	3/31	47	16.7	11.1	16.1
Teton Pass	10F13	8500	3/31	89	34.2	22.0	37.4

WILLOW CREEK

Aspen Grove	11F10	6600	3/30	33	11.0	6.8	--
Birch Creek	11F3	6800	3/30	32	11.0	2.4	--
Bone	11F8	6200	3/28	20	5.6	5.6	--
Ozone	11F4	5800	3/28	0	0.0	0.0	--
Sheep Mountain I	11F9	6450	3/28	39	12.9	--	--
Sheep Mountain II	11F11	6510	3/28	41	14.2	8.9	--
Tex Creek	11F5	6700	3/30	29	9.2	7.4	--

SAND CREEK

Henry Creek	11F6	5650	3/27	0	0.0	T	--
Taylor Mountain	11F7	6500	3/27	14	5.5	6.4	--

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
NAME	NO.	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	AVERAGE b

BLACKFOOT RIVER

Austin Bros. Ranch	11G3	6450	3/31	26	8.6	7.0	8.5*
China Hat	11G2	6300	3/31	19	5.9	6.2	5.6*
Slug Creek Divide	11G5	7225	3/31	54	18.2	13.2	16.2
Somsen Ranch	11G1	7000	3/31	46	16.0	10.9	12.6*

PORTNEUF RIVER

Cove	11G25	5525	3/27	16	5.1	--	--
Dempsey Creek	12G5	6280	3/27	36	12.4	8.3	12.3*
Lower Pebble	12G6	5800	3/30	42	14.2	9.5	--
Mink Creek	12G1	6300	4/3	46	16.8	9.7	16.6
Moser	11G24	5950	3/27	19	6.6	--	--
North Bancroft #1	11G23	5460	3/27	0	0.0	--	--
North Bancroft #2	11G22	5430	3/27	0	0.0	--	--
Pebble Creek	12G2	6550	3/30	47	16.9	10.0	14.6

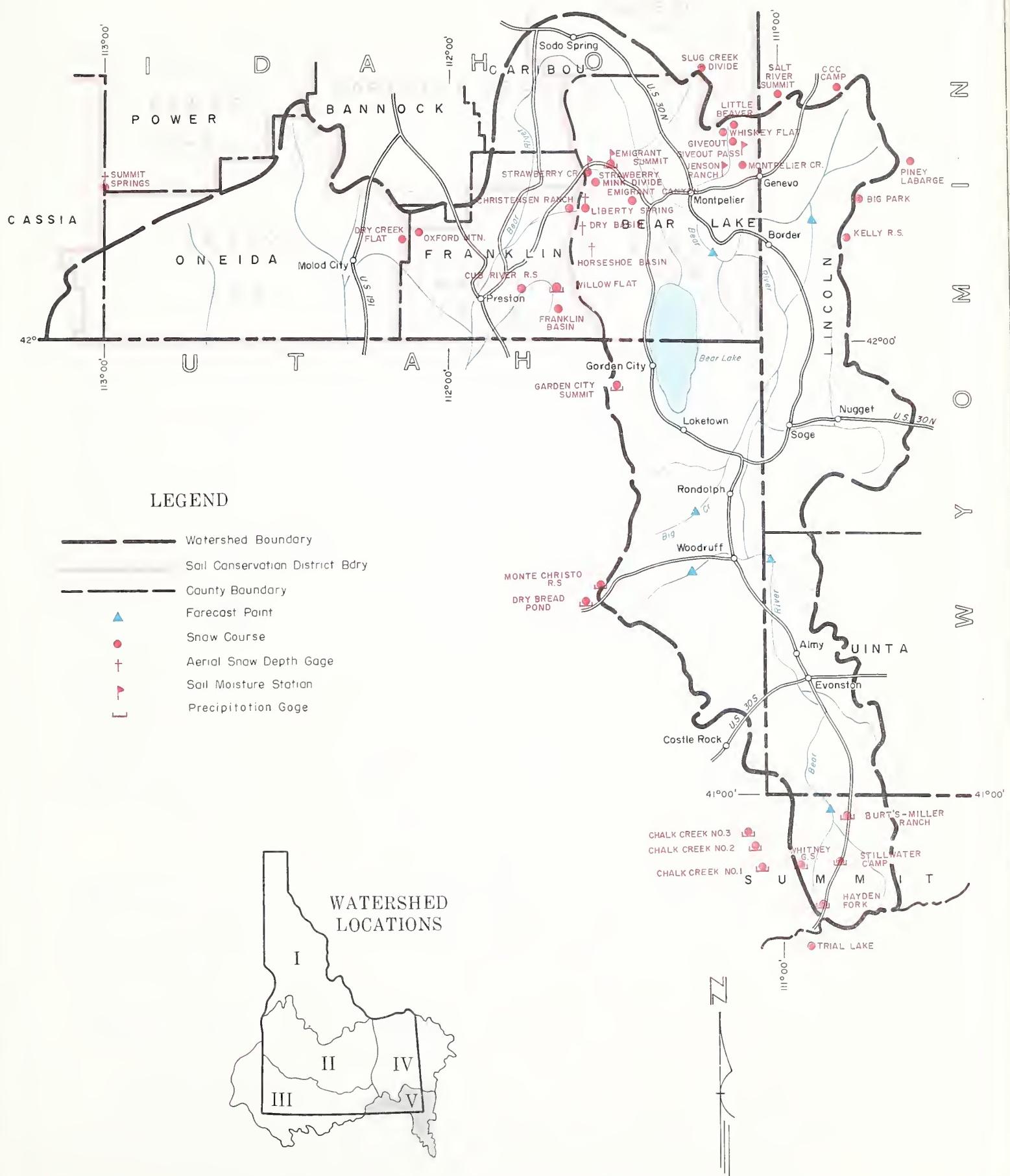
SOIL MOISTURE

STATION		PROFILE (Inches)		SOIL MOISTURE (Inches)			
NAME	ELEVATION	DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
<u>HENRYS FORK RIVER</u>							
Island Park	6315	48	9.9	3/29	9.0	8.8	8.7
Valley View	6500	48	13.3	3/29	7.4	8.0	11.0
<u>TETON RIVER</u>							
Pine Creek Pass	6750	48	13.3	3/31	7.0	4.9	8.2
State Line	6400	48	14.8	3/31	10.6	12.5	12.7
<u>PORTNEUF RIVER</u>							
Lower Pebble	5800	36	7.6	3/30	6.0	8.3	6.6
Pebble Creek	6550	48	7.2	3/30	3.6	6.4	5.6

(b) 1948-62, 15 year period. * Not located directly on this drainage. * Estimated 1948-62, 15 year Average. (A) Aerial observation: Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

GREAT BASIN

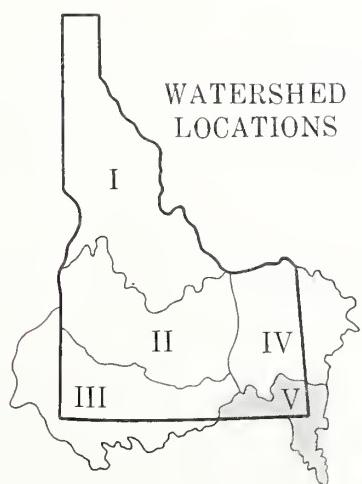
25 0 25 50
SCALE IN MILES



LEGEND

- Watershed Boundary
- - - Soil Conservation District Bdry
- - - County Boundary
- ▲ Forecast Point
- Snow Course
- ✚ Aerial Snow Depth Gage
- Soil Moisture Station
- ◆ Precipitation Gage

WATERSHED LOCATIONS



INDEX to SNOW COURSES

NO.	STATE	NAME	SEC. LAT.	TWP. OR ANO	RGE. LONG.	ELEV.
-----	-------	------	--------------	-------------------	---------------	-------

GREAT BASIN

BEAR RIVER

10G11	Wy	Big Park	7	27N	117W	8700
11H13MP	U	Dry Bread Pond	19	8N	4E	8230
11G7	I	Emigration Canyon (mouth)	24	12S	42E	6500
11H7P	U	Garden City Summit	35	14N	4E	7600
10J6	U	Burt's-Miller Ranch	19	3N	10E	7900
10J7	U	Hayden Fork	1	1S	9E	9300
10G12	Wy	Kelly Ranger Station	13	26N	118W	8200
11H12P	U	Monte Cristo R. S.	3	8N	4E	8960
10G10	Wy	Piney LaBarge	19	29N	114W	8820
10J17P	U	Stillwater Camp	32	2N	10E	8550
10J28P	U	Whitney G.S.	4	1N	9E	9300

MONTPELIER CREEK

11G16	I	Giveout	35	11S	45E	6840
11G17m	I	Giveout Pass	2	12S	45E	7025
11G19m	I	Jenson Ranch	15	12S	45E	6580
11G20	I	Little Beaver	26	11S	45E	6970
11G18	I	Montpelier Creek	22	12S	45E	6570
11G21	I	Whiskey Flat	26	11S	45E	6985

MINK CREEK

11G11	I	Christensen Ranch	27	13S	41E	5600
11G14a	I	Dry Basin	30	13S	42E	7900
11G6MP	I	Emigrant Summit	21	12S	42E	7350
11G15a	I	Horseshoe Basin	31	13S	42E	8000
11G13A	I	Liberty Spring	7	13S	42E	3600
11G9M	I	Strawberry Creek	9	13S	41E	5800
11G10	I	Strawberry Mink Divide	14	13S	41E	6800

CUB RIVER

11G12	I	Cub River Ranger Station	5	15S	41E	5400
11G8	I	Franklin Basin	1	16S	41E	3000
11G4P	I	Willow Flat	2	15S	41E	6100

MALAD RIVER

12G4	I	Dry Creek Flat	31	13S	37E	6350
12G3	I	Oxford Mountain	32	13S	37E	6800

LEGEND

Numbering System (example)

- 10J7 SNOW COURSE ONLY.
- 10J7P SNOW COURSE AND PRECIPITATION GAGE.
- 10J7M SNOW COURSE AND SOIL MOISTURE STATION.
- 10J7A SNOW COURSE AND AERIAL MARKER.
- 10J7MA SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
- 10J7MP SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
- 10J7 m SOIL MOISTURE STATION ONLY.
- 10J7 a AERIAL MARKER ONLY.
- 10J7 p STORAGE PRECIPITATION GAGE ONLY.

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
NAME	NO.	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (inches)	AVERAGE ^b

GREAT BASINBEAR RIVER

Emigrant Summit	11G6	7350	3/29	70	25.4	17.9	24.9
Emigration Canyon	11G7	6500	3/29	27	9.5	8.7	10.5*

Montpelier Creek

Giveout	11G16	6840	3/30	39	13.5	10.0	--
Little Beaver	11G20	6970	3/30	48	16.6	12.8	--
Montpelier Creek	11G18	6570	3/30	20	7.1	8.6	--
Whiskey Flat	11G21	6985	3/30	25	7.5	8.1	--

Mink Creek

Christensen Ranch	11G11	5600	3/28	23	9.0	5.4	8.6*
#Emigrant Summit	11G6	7350	3/29	70	25.4	17.9	24.9
Liberty Spring	11G13	8600	3/29	108	39.4	28.8	--
Strawberry Creek	11G9	5800	3/29	34	10.7	7.1	12.1*
Strawberry Mink Divide	11G10	6800	3/27	60	24.4	13.2	22.6*

Cub River

Cub River R. S.	11G12	5400	3/28	14	6.0	5.2	7.6*
#Franklin Basin	11G8	8000	3/31	77	28.3	22.2	29.1
Willow Flat	11G4	6100	3/28	34	13.7	10.0	15.2*

MALAD RIVER

Dry Creek Flat	12G4	6350	3/27	9	3.2	T	4.1*
Lower Elkhorn	12G11	6850	3/27	32	12.0	--	--
Oxford Mountain	12G3	6800	3/27	23	7.6	4.3	8.2*
Upper Elkhorn	12G10	7100	3/27	52	16.8	--	--

SOIL MOISTURE

STATION	PROFILE (Inches)			SOIL MOISTURE (Inches)			
	DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO	
NAME	ELEVATION						
<u>BEAR RIVER</u>							
Emigrant Summit	7350	36	8.2	3/29	3.8	5.8	4.6
Strawberry Creek	5800	48	12.7	3/29	10.5	8.4	11.3
<u>Montpelier Creek</u>							
Jenson Ranch	6580	48	18.7	3/30	9.4	11.3	17.1

(b) 1948-62, 15 year period. * Not located directly on this drainage. * Estimated 1948-62, 15 year Average. (A) Aerial observation: Water content estimated. (SP) Pressure Pillow snow-water equivalent.
(R) Radioactive Gage snow-water equivalent.

Agencies and Organizations Cooperating in Idaho Snow Surveys

GOVERNMENT AGENCIES

Canada:

Department of Lands, Forests, and
Water Resources, British Columbia
Department of Resources and Development,
Water Resources Division

States:

Idaho State Reclamation Engineer
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of
State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

U. S. Army Engineers
U. S. Department of Agriculture
Forest Service
Agricultural Research Service
U. S. Department of Commerce
Environmental Sciences Service Administration,
Weather Bureau
U. S. Department of the Interior
Bonneville Power Administration
Bureau of Reclamation
Fish and Wildlife Service
Water Resources Division, Geological Survey
Indian Service
National Park Service
Bureau of Land Management

PUBLIC UTILITIES

The Montana Power Company
Washington Water Power Company
Idaho Power Company
Utah Power and Light Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Boise Project Board of Control
Little Wood River Irrigation District
Jordan Valley Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Twin Lakes Irrigation Company
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control

PRIVATE CORPORATIONS

Amalgamated Sugar Company

*Other organizations and individuals furnish valuable information for
snow survey reports. Their cooperation is gratefully acknowledged.*

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
P.O. BOX 38
Boise, Idaho 83701

OFFICIAL BUSINESS

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF AGRICULTURE

FIRST CLASS MAIL

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Furnishes the basic data
necessary for forecasting
water supply for irrigation,
domestic and municipal water
supply, hydro-electric power
generation, navigation,
mining and industry

—
“The Conservation of Water begins
with the Snow Survey”

USDA NATIONAL AGRICULTURAL LIBRARY
CURRENT SERIAL RECORD
WASHINGTON, D.C. 20250